


PROF. F.A. HAGAR

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The 151st Continuous Year of Publication


## "... to preserve good neighborhood"

BACK in 1814, the Old Farmers' Almanac gave some sage advice to its readers, which is just as good today.
"Have you got your accounts all so well arranged," it queried, "that you can then settle with each neighbor without confusion, trouble and hard thoughts? The first of January is the day for balancing accounts. This most surely ought never to be neglected. You will therefore be preparing your papers in order to preserve a good neighborhood."

In 1943, modern means of communication have so eclipsed distance that the world is our neighborhood. . . . But it is still true that one of the most important contributions an individual can make to "preserving a good neighborhood" is that of keeping square with the world by always having personal and family accounts in good order.

The John Hancock Home Budget is a simplified method of keeping accounts, which has solved the problem of household finance for many families. Ask a John Hancock representative for your copy or address your request to Department A, John Hancock Mutual Life Insurance Co., 197 Clarendon Street, Boston, Massachusetts.


## Number One Hundred and Fifty-One



Being third after Bissextile or Leap Year, and (until July 4) 167th year of American Independence.

Fitted for Bobton, and the New England Stateb, with Spectal Corrections and Calculations this Year to Answer for all the United States.

Containing, besides the large number of Astronomical Calculations and the Farmer's Calendar for every month in the year, a variety of
NEW, USEFUL, AND ENTERTAINING MATTER.

## Established IN 1792




This calendar of days of date far back
Dingy and dog eared is to me worth more Than many novels, as a living store
Treasure-house of dreams - of what Hesiod taught before Home truths . . . deep springs of astronomic lore.

John Savery, Library of Congress, 1921.

$$
\begin{aligned}
& \text { Copyright, 1942, By } \\
& \text { MABEL M. SWAN, } \\
& \text { BROOKLINE, MASS. } \\
& \text { ER T.M. Registered in U.S. Sold By: } \\
& \text { PATENT Office. } \\
& \text { THE AMERICAN NEWS CO. } \\
& \text { AND BRANCHES }
\end{aligned}
$$

Publishers: YANKEE, INC. DUBLIN, N. H.

## TO PATRONS AND CORRESPONDENTS

This issue completes One Mundred and Fifty-oue years of continuous uninterrupted publicatiou. Your patronage during these yearsand in this year of trial-is cause for constant gratification aud inspiration.

This issue, you will note, includes weather indications by Mr. Weatherwise computed in voluntary cooperation with the Code of Wartime Practices for the American Press. There can be little doubt these weather indications will be particularly useful this coming year in view of the restrictions of all forecasts.

In leaving out Length of the Days in the left hand calendar pages last year we inadvertently assumed a love for arithmetic among our readers (through which they would with some pleasure calculate this table for themselves from the figures given) and supplanted same with a Twilight table which would be useful for "Dimouts" and "Blackouts" -for telling the children when to come home-and for calling in the cattle. This year we are reinstating the Length of Days and keeping a Twilight Table as well. Last year's innovation of Key Figures on the left hand pages refcrring to the Outside New England Table on page 7 secms to have beeu well received among our readers outside New England and of real value to them.

To John Holmes, and his publishers Henry Holt \& Son, we are indebted for the poems on the Calendar pages, to the publication Field \& Stream for the Game Laws, to Arthur Bell for the Poetry \& Pleasantries, to the American Newcounen Society for the contribution by Lord Halifax, and to L. A. \& J. S. respectively for the astronomical data and farm calendars. We arc also indebted to many state and government officials-and particularly to our advertisers many of whom have continued their patronage under most trying conditions.

Those of the newspaper, magazine, aud radio professions remain, as ever, particularly close friends-aud to them, our deep thanks.

Almighty God, we pray for Thy gnidance and connsel this coming year. And in this, it is by our works aud not by our words we would be judged; these we hope will sustaiu us in the humble though proud station we have so long held.

## Your ob't servant,



Nov. 20, 1942.

## THE OFFICE OF CENSORSIIIP Washington, D. C.

October 5, 1942
YANKEE, INC.
Dublin, N. H.
Gentlemen:
Thank you for submittiug in proof form the weather indications for The Old Farmer's Almanac for the coming year. Due to your published statement that these are "weather indications," there is no application to them of the request in the "Weather" clanse of the Code of Wartime Practices for the Anerican Press that no weather forecasts be pullished except those issued hy the U. S. Weather Bureau.

Your cooperation under the voluntary Code is appreciated.
Very truly yours.
N. F. HOWARD

Assistant Director (Press)

## 1543



The oracle, being asked by Gyges who was the happiest man, replied Aglaus. Gyges, who expected (as he was a very rich monarch) to have heard himself named, was much surprised and curious to know who this Aglaus could be. After much inquiry, he was found to be an obscure countryman who employed all his time in cultivating a garden, and a few acres of land about his house.

## 1344



## HOW TO USE THE OLD FARMER'S ALMANACK

In accord with longtime usage certain signs are used on the left and right hand pages (8 through 31) to indicate planets, aspects, the Zodiac, etc. Definition of the astronomical terms uscd appears on pages 35 and 36 .

## Names and Charaotern of the Principal Planets.



Names and Characters of the Aspects.
o Oonjunotion, or In the same degree. ㅁ Quadrature, 90 degrees.
8 Opposition, or 180 degrees.
$\Omega$ Dragon's Head, or Ascending Node. ¿ Dragon's Tall, or Descending Node.

## Namen and Characters of the Bigns of the Zodiac.

1. T Arles, head.
2. 8 Taurus, neok.
3. $\square$ Geminl, arms.
4. Dancer, breast.
b. $\Omega$ Leo, heart.
5. ITL Virgo, belly.
6. $\bumpeq$ Libra, reina.
7. M Scorplo, secrets.
8. I Sagittarius, thighs.
9. Woprloornus, knees.
10.     - Aquarius, legs.
11. H Pioces, feet.1

## Chronological Cycles for 1943.

Golden Number
$6 \mid$ Solar Cycle
20 Roman Indiction
11
Epact . . . . . 24 Dominical Letter . . C Year of Julian Period 6656

## Movable Feasts and Festı for 1043.

SentuagesimaSun., Feb. 21 Good Friday, Apr. 23 Whitsunday, June 13

Shrove Sunday, Ash Wednesday, lst Sun. in Lent, Palm Sunday,

Mar. 7 Easter Sunday, Mar. 10 Low Sunday, Mar. 10 Low Sunday, May 2 Mar. 15 Rogation Sunday, May 30 1st Sunday in Advent, Apr. $18 \mid$ Ascension Day, June $3 \mid$ Nov. 28

## THE SEASONS, 1943

Eastern War Time

| rnal Equinox (Spring) | March | A.M.-Su |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Summer Solstice (Summer), | June 22, | 3:13 A.m.- | " | Cancer, | $\bigcirc$ |
| Autumnal Equinox (Autumn) | September 23, | 6:12 P. | " | Libra, |  |
| Winter Soletice (Winter), | December 22, | 1:30 P.M. | . ${ }^{+}$ | Capric |  |

## EARTH IN PERIHELION AND APHELION, 1943

The Earth will be in Perihelion on January 3, 1943, at 9 P.M., diatant from the Sun 91,347,000 miles. The Earth will be in Aphelion on July 4, 1943, at 6 A.M., distant from the Sun $94,452,000$ miles.

## CALCULATIONS AND CORRECTIONS

While the predictions of the Calendar pages are made for the latitude and longitude of Boston and are in Eastern War Time, i.e., one hour fast of Eastern Standard Time, the time of the 75 th meridian west of Greenwich, they may be used throughout the United States by applying the corrections given here and in the tables on pages 7,32 , and 37 .

The Table given below contains corrections in minutes of timefor a number of important places in New England, and any other place in New England can use the correction of the place in the Table which is nearest in longitude to iteelf.

For the Rising and Setting of the Sun, Moon and Planete add tabular quantity if longitude from Boston is West, but subtract it if East; and this will give the value when the place is in or near the same latitude as Boston. When the latitude of the place differs considerably from that of Boston, the correction will also be right when the oolestial body is on or near the Equator; but when it is remote from the Equator 50 muoh aoouracy oannot be expected.


Times obtained for places other than Boston by the conversions described below will in every oase give directly the War Time in use in those places. If during any part of the year 1943 the United Nations win the final victory and War Time is terminated, one hour should be subtracted from the times of day obtained from the Almanac to obtain the time in common use, except in those States or Cities in which War Time or "daylight saving" time may be continued by State or local ordinances.

## OUTSIDE NEW ENGLAND

A direct reading of the figures on the Almanac pages gives information that applies precisely and solely to Boston. The examples which follow interpret the significance of this information and illustrate the way to get the same information for a place outside New England, such as Los Angeles. The date, April 12, used for the purpose of the illustrations, has been chosen at random.

Sunrise and Sunset. The times of sunrise and sunset at Boston on April 12 are read directly from columns 4 and 6 on page 14. The key letters adjacent to these times, in columns 5 and 7, are indices to the table on page 7 whereby the times of sunrise and sunset at Boston are converted into those for other key cities, to wit: -

BOSTON
Sunrise
Key letter

Sunset
Key letter

6:09 A.M.E.W.T.
Sunrise (Boston) 6:09 A.M.
Correction (Column

$$
\text { F, page 7) } \quad+: 17
$$

Sunrise
(Los Angeles) 6:26 A.M.P.W.T.
Sunset (Boston) 7:21 P.M.
Correction
(Column L, page 7):00

Dawn and Dark. The approximate times dawn will break and dark descend are found by applying the length of twilight takeri from the table on page 32 to the times of sunrise and sunset given on the calendar pages. The latitude of the locality determines the column of the table from which the length of twilight is to be selected.
$\underset{\left(\text { Latitude } 42^{\circ} 22^{\prime} \mathrm{N} .\right)}{6.09}$


| $\underset{\text { (Latitude } 34^{\circ} 03^{\prime} \mathrm{N} . \text { ) }}{\text { LOS ANGELES }}$ |  |
| :---: | :---: |
| Sunrise | 6:26 A.M. |
| Subtract length of twilight (Column 3 of table) | 1:28 |
| Dawn breaks | 4:58 A.M.P.W.T. |
| Sunset | 7:21 P.M. |
| Add length of twi- | 1:28 |
| Dark descends | 8:49 P.M.P.W. |

Sun Slow. The column headed "Sun Slow" is of primary use to sundial enthusiasts. The figures therein tell how slow on each day the time indicated by a properly adjusted and graduated sundial will be of the time indicated by a clock. On April 12 sun time in Boston will be 45 minutes slow of Eastern War Time. The time indicated by a sundial located elsewhere than in Boston is converted to clock time by applying two corrections, the "sun slow" correction for Boston and that for the locality given in column I of the table on page 7.

| BOSTON |  |
| :--- | :---: |
| Sundial time | $9: 28$ A.M. |
| Sun slow | $+: 45$ |
| Eastern War Time | 10:13 A.M.E.W.T. |


| LOS ANGELES |  |
| :--- | :--- |
| Sundial time | 11:43 A.M. |
| Sun slow | $+: 45$ |
| Correction (Col- |  |
| umn I, page 37) | $+: 09$ |
| Pacific War Time | 12:37 P.M.P.W.T. |

To those who have always shunned sundials as inaccurate timekeepers it may be a welcome relief to learn that there is this exact and computable correction which reates the time a sundial shows to the time in common use.
Length of Day. The figures in the column headed "Length of Day" give directly the length of time the Sun will be above the horizon at Boston. The length
of day in other looslities is found by subtracting the time of sunrise from that of sunset.

Length of day 13 h 12 m
April 12-Boston
(fr. calendar pages)

| Sunset <br> Sunrise | $\begin{aligned} & \text { 7:21 P.M.P.W.T. } \\ & \text { 6:26 A.M.P.W.T. } \end{aligned}$ |
| :---: | :---: |
| Length of day Los Angeles (fr. table p. 37) | 12h 55m-Apr. 12 <br> pages and corr. |

High Tides. The figures for Full Sea in Columns 11 and 12 of the left hand Almanac pages $8-30$ are the times of high tide at Commonwealth Pier in Boston Harbor. The heights of these tides are given on the right hand pages 9-31. A Los Angelan visiting Long Beach finds the approximate times of high tide there and their approximate heights by applying to the corresponding figures for Boston the appropriate corrections from page 37 . The heights are reckoned from Mean Low Water: each day has a set of figures-upper for the morning-and lower for the evening.

## EXAMPLE OF TIDE CORRECTION

High tide
BOSTON LONG BEACH
5:30 A.M.E.W.T.
$\begin{array}{ll}\text { High tide (Boston) } \\ \text { Correction page } & \text { 5:37 } \\ -1: 37\end{array}$


Height
8.6 feet

## Height <br> 3.1 feet

Moonrise and Moonset. The procedure for finding the times of moonrise and moonset follows that for finding those of sunrise and sunset except that, for localities outside New England, the constant additional correction taken from Column on page 7 must be applied.

BOSTON
Moonset
1:52 A.M.E.W.T. .
Key letter

## LOS ANGELES

Moonset (Boston)
Correction (Col-

$$
\text { umn P, page } 7 \text { ) -:13 }
$$

Correction (Col-
umn $\mathfrak{3}$, page 37)
$+: 06$
Moonset
(Los Angeles)
1:45A.M.P.W.T.
Moon Souths. The time the moon souths in Boston is converted to the time it is due south in a locality other than Boston by applying the appropriate corrections. from Columns I and on page 7 .

> BOSTON

Moon souths
7:12 P.M.E.W.T.

## LOS ANGELES

Moon souths
(Boston) $\quad$ 7:12 P.M.
Correction (Column I, page 7)
Correction (Column (3, page 7)
$+: 06$
Moon souths
(Los Angeles)
7:27 P.M.P.W.T.
The other information concerning the Moon contained on the left hand Almanac pages applies without correction throughout the United States.

Risings and Settings of the Planets. The times of the rising and settings of the naked eye Planets with the exception of Mercury are given for Boston in the table on page 32. The procedure for converting these times to those of other localities follows that for converting the times of sunrise and sunset given above.

Planetary Aspects. A perusal of the planetary aspects on the right hand Almanac pages will reveal occasional celestial spectacles worth observing. The nights of conjunctions of a Planet and the Moon, in particular, provide an opportunity for locating and identifying the Planet, since it will be the brightest object in the neighborhood of the Moon on those nights (with the exception of Uranus and Neptune which are not visible to the naked eye). Venus never needs the Moon as an aid to its identification; it is always the brightest object in the night sky, the Moon excepted. Mercury is identifiable only at the times most favorable for its observation as the object seen close to the horizon in the midst of the twilight glow that follows the setting Sun, and not far from the point of the horizon at which the Sun disappeared from view.

軍屈 5 On pages 7,32 , and 37 follow correction tables referred to above.

Jaeksonvile，
Los Angeles，Cal．
Louisville，Ky．．．
Miami，Fla．．．．．
Minneapolis－St．
New Orleans La
Paul，Minn．
$++++++++++++++++++++++++++$

＋＋＋＋＋＋＋＋＋＋＋＋＋＋＋＋＋＋＋＋＋＋＋＋
 $++++++++++++++++++++++++++$
 $++++++++++++++++++++++++++$
 $+ \pm++++++++++++++++++++++++$
 $++++++++++++++++++++++++++$

$+++++++++++++++++++++++++$

$++ \pm+++++++++++++++++++++1$

＋＋＋＋＋＋＋＋＋＋＋＋1 + ＋＋＋＋＋＋＋＋＋

$+++++++ \pm+ \pm++1++\quad+ \pm++++ \pm+1$
 $++ \pm+++++++++1++1+++++++1$





 ＋十＋＋十＋＋さ＋＋1＋11＋1＋＋さ＋＋＋＋1
 $++++ \pm++ \pm+1+111+1+++++++1$
 $+++++ \pm+++1+111+1+++++++1$

1943] JaNUARY, First Month.

ASTRONOMICAL CALCULATIONS.

|  | Dsys. | 01 | Days. | 01 | Days. | 0 | 1 | Daye. | 0 | 1 | Days. | 0 | , |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \% | 1 | $23 \mathrm{s.02}$ | 7 | 2225 | 13 | 21 | 32 | 19 | 20 | 25 | 25 |  |  |
| 品 | 2 | 22.57 | 8 | 2217 | 14 | 21 | 22 | 20 | 20 | 12 | 26 |  |  |
| $\overline{8}$ | 3 | 22 | 8 | 2209 | 15 | 21 | 11 | 21 | 19 | 59 | 27 |  |  |
| $\stackrel{\square}{\circ}$ | 4 | 22 46 | 10 | 2201 | 16 | 21 | 00 | 22 | 19 | 45 | 28 |  |  |
| ¢ | 5 | $\begin{array}{ll}22 & 39\end{array}$ | 11 | 2152 | 17 | 20 | 49 | 23 | 19 | 32 | 29 |  | 802 |
| - | 6 | $\left[\begin{array}{ll}22 & 32\end{array}\right.$ | 12 | $\|$ <br> 21 | 18 | 20 | 37 | 24 | 19 | 18 | 30 | 17 |  |

- New Moon, 6th day, 8 h. 37 m., morning, E.

D First Quarter, 13th day, 3 h .48 m. , morning, E.
O Full Moon, 21st day, 6 h. 48 m., morning, W.
© Last Quarter, 29th day, 4 h. 13 m., morning, E.
KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 7, FOR ALL POINTS OUTSIDE NEW ENGLAND.


## JANUARY hath 31 days.

[1943


Now glve the heart's onward habit brave intent:
Hammer the golden day until it lies
A golden plate to heap the memory.
Salute the arriving moment with your eyes.

| ¢ $\stackrel{1}{2}$ | A | Aspects, Holidays, Heights of High Water, Weather, otc. | Farmer'g Calendar. |
| :---: | :---: | :---: | :---: |
| 1 |  |  | Let us greet this New Year |
| 2 | Sa | in b born 1735 8.6 Snow | with determination and un- |
|  |  |  | nd measure olden Rule. |
|  |  |  | ret not about any personal |
|  |  |  | forebodings for it is indeed |
|  |  | Nellie T. Ross became ${ }_{\text {Governor }}$ runs 1935 Tides $\left\{\begin{array}{c}11.3 \\ 9.8\end{array}\right.$ | rare that these things feared most shall come to pass. Study |
|  |  | 3Epíply it. Joan of Arc (402 (f) Peri. 11.7 | John 13:34. |
|  | Th. |  | And in considering the passage of events look well at |
|  |  | Galleo ¢̧Gr.E. Tides $\left\{\begin{array}{l}10.8 \\ 11.8 \\ \text { d. } 1642\end{array}\right.$ Fine | Mother Nature's example - - |
|  | S | 1st. American balloon Tides $\left\{\begin{array}{l}10.8 \\ \text { ascent } 1793\end{array} \mathrm{crisp}^{\text {did }}\right.$ | how the trees and flowers give us their appointed beauties |
|  |  | lst S. af. 趾pt. Tldes $\left\{\begin{array}{l}10.2 \\ 10.9 \\ \text { days. }\end{array}\right.$ | and the birds their songsapparently oblivious of the |
|  | V | Plow Mondas | tragedies around them-or the state of the world |
|  | 1 | ¢ in 8 . 1 En. Tides $\left\{\begin{array}{l}9.8 \\ 8.6 \\ \text { Eq } \\ \text { Shivery }\end{array}\right.$ | state of the world. <br> If it be cold don't pull your |
|  | V | S.S. Lexington burnt 1840 Tides $\left\{\begin{array}{l}9.5 \\ 9.0\end{array}\right.$ and snowy. | shirt collar so high as to run the risk of exposing the |
|  |  | St, Hilary (br-r-r!) Tides $\left\{\begin{array}{l}9.3 \\ 8.5\end{array}\right.$ Mild | nether man-nor the comforter |
|  | H |  | too close about the ears lest your feet lang in the breezes. |
|  |  |  | This year the sun of all political parties shall be celinsed |
|  |  |  | by men and women striving |
|  | M | Scott at South Tides $\left\{\begin{array}{l}8.8 \\ \text { Pole 1912 }\end{array}\right.$ season. | for the good of their country. <br> To conserve heat it is advis- |
|  | T |  | able to educate the cat and the dog that once they are out |
|  | V | Inaugural $_{1945}^{\text {D2y }}$ ¢ $\% \mathbb{C}$. ${ }^{9.5}$ Colder. | they're out and once they are |
|  | T | Five Power Naval Conference Op. 1930 | in they are in and it is up to them to decide which it shall |
|  | H | Clara Barton Safled for Armenia 1896 TIdes $\left\{\begin{array}{l}8.5 \\ 5.7 \\ 9.7\end{array}\right.$ Possibly | e. <br> Cattle and the horse will ap- |
|  | S | Phillips Brooks d. 1893 Tldes $\left\{\begin{array}{l}8.6 \\ 9.6\end{array}\right.$ rain. | preciate warm quarters this |
|  |  |  | month and as few nails in the hay as possible. Give your |
|  | M |  | hens warm mash and throw a |
|  | Tu. |  | Wood cut now will last |
|  | W |  | longer. <br> Girls venturing out with |
|  | Th. | Rev. Sabine Baring Gould, born 99.0 | hoop petticoats will do well |
|  |  | 1834. Author: Onward Chris. Sold. 18.8 | to lift them high, quoth the |
|  |  | Charles I Beheaded $\quad$ B.4 $\quad$ Sign | OFA in an earlier year. Girls in pants say we should re- |
|  | S | Charles I Beheaded $\left\{\begin{array}{l}9.4 \\ 8.5\end{array} \quad\right.$ Signs of | main as always in the privacy |
|  | - | 4tf S. af. (Epi. Tides $\left\{\begin{array}{l}9.7 \\ 8.6 \\ \text { snow. }\end{array}\right.$ | of their own sex. |

FEbRUARY, Seoond Morth.
ASTRONOMICAL CALCULATIONG.


- New Moon, 4th day, 7 h. 29 m., evening, W.

D First Quarter, 11th day, 8 h. 40 m ., evening, W.
O Full Moon, 20th day, 1 h. 45 m., morning, W.
© Last Quarter, 27th dayं, 2 h. 22 m :, evening, W.


## FEBRUARY hath 28 days.



To be New England is to get up early
And make the most of the day. It is to spend
Speech, labor, time, and all essentials dearly,
Rarely to buy, and patiently to mend.
Aspects, Holldays, Helghts of
High Water, Weather, otc.

Am. News Co. Tides $\begin{aligned} & 10.1 \\ & \text { Founded } 1864\end{aligned}$ Windy.
 Span. Inquisition o $ర \mathbb{C}$. $\mathbb{1}$ in 11.1 Abol. 1813 of 4 (CPeri. 19.8 $\odot \begin{gathered}\text { Total } \begin{array}{c}\text { Thlipse. } \\ \text { ecli. } \\ -\end{array} \text { Snow }\end{gathered}$ T. Carlyle y Stat. Tides $\left\{\begin{array}{l}10.2 \\ 11.7 \text { squalls }\end{array}\right.$ Singapore 4 OR R.A. Stat. in $\{10.4$ Singapore of 1819 (C. 2 Stat. in $\left\{\begin{array}{l}10.4 \\ \text { R. A. and } \\ 11.6\end{array}\right.$ 5tl) A. (f)i. $\widehat{S}_{\text {In R.A. }}^{\text {Stat. }} 110.5$ storms. Indlans att. Haverbill 1704
$\mathbb{C}$ En. Tldes $\left\{\begin{array}{l}10.4 \\ 10.8\end{array}\right.$ E. W. T. began 1942
Britain aq.
Tides $\left\{\begin{array}{l}10.2 \\ 10.1\end{array}\right.$ Milder Canada 1763 Daniel Boone
$\qquad$
13 Sa.
14 C
15 M .
16 Tu .
17 W .
18 Th .
19 Fr.
20 Sa .
21 C
22 M .
23 Tu .
24 W.
25 Th .
26 Fr .
27 Sa. 28 C
born 1735 Lincoln's $\mathbb{C}$ Birthday o $\odot \mathbb{C} . \delta 12 \mathbb{C}$. Tides $\{8.2$ Adm. Porter Tides $\left\{\begin{array}{l}8.9 \\ 7.8\end{array}\right.$ Rain then 6th S. A. (Eni. St. Valenting $\left\{\begin{array}{c}8.8 \\ 7.7\end{array}\right.$ Slngapore Sur. (I runs $\begin{aligned} & 1942\end{aligned}$ (igh $\begin{aligned} & 8.8 \\ & 7.8\end{aligned}$ much
 Michelangelo Tldes $\left\{\begin{array}{l}\text { d.2 } \\ 8.8 \\ \text { Watch for }\end{array}\right.$ $\underset{(\mathrm{w} .1 . \mathrm{y} \text { ) }}{\text { Auld Deer }} \mathrm{GT}_{\mathrm{W}} \mathrm{El}$. Tides $\left\{\begin{array}{l}0.4 \\ 8.8 \\ \mathrm{real}\end{array}\right.$
 Miss. flood, © Partial 口 $\begin{gathered}\text { Pelipse } \odot\end{gathered}\left\{\begin{array}{l}8.8 \\ 8.7\end{array}\right.$ 1882.

Zeptuag. $\mathfrak{Z}$. Tides $\left\{\begin{array}{l}9.0 \\ 9.8\end{array}\right.$ blizzard
 Zola Cond. © on Eq. Tides $\{9.3$
St. Matthias rides $\{0.4$ Pleasant and Colt Patented Six Shooter 1836
Napoleon Tldes $\left\{\begin{array}{c}9.5 \\ 8.9\end{array}\right.$ Fscaped 1815 Tldes $\{8.9$ born 1807 born 1807 Sixag. Si Tides $\left\{\begin{array}{l}9.6 \\ 8.5\end{array}\right.$

It takes three Springs to make a Leap Year.

## Farmer's Calendar.

Prepare your sap buckets and spigots now and it would not be amiss to make the seed catalogs your evening reading. Is your ice house filled?

We once knew a man who could make champarne cider better than anyone for miles and counties around. Many were his friends and well wishers this time of year at his fireside, but in his declining years none stepped forward to save him from the cold loneliness of the poor farm.

Feared of dying? Were you feared of being born?

By taking war stamps for your produce you will increase your sales as well as build a splendid savings account.

Expect a good chimney fire about now - apply salt - wet down the roof.

It is safe to bathe this month.

Save your wood ashes for the lawn. Trim apple trees and cut grafts.

Hope makes a good breakfast but a bad supper. See to your tools.

- Pass along your old clothes to the poor. Some of your other worn possessions will come in liandy for hooked and braided rugs.

A wise man hath more ballast than sail.
Make a hot bed.
A red wing blackbird was seen at Block Island the 17 th of this month last year.

On Candlemas Day-half the woor and half the hay should be left-compared with what you had at winter's start.



APRIL, Fourth Month.
ASTRONOMICAL CARCULATIONS.

| $\stackrel{\sim}{\circ}$ | Days. | 0 |  | Days. | 0 |  | Days. | 0 |  | Day |  |  |  | Day |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 |  | 23 | 7 |  | 41 | 13 |  | 54 | 19 |  |  |  | 25 |  | 03 |
|  | 2 | 4 | 46 | 8 | 7 | 03 | 14 |  | 16 | 20 | 11 | 2 | 3 | 26 | 13 | 23 |
|  | 3 | 5 | 09 | 9 | 7 | 26 | 15 |  | 37 | 21 | 11 | 1 | 3 | 27 |  | 42 |
|  | 4 | 5 | 32 | 10 | 7 | 48 | 16 |  | 59 | 22 | 12 |  | 4 | 28 |  | 01 |
|  | 5 | 5 | 55 | 11 | 8 | 10 | 17 |  | 20 | 23 |  |  |  | 20 | 14 | 20 |
|  | 6 | 6 | 18 | 12 | 8 | 32 | 18 | 10 | 11 | 24 | 12 | 4 | 4 | 30 | 15 |  |

- New Moon, 4th day, 5 h. 53 m., evening, W.

D First Quarter, 12 th day, 11 h .4 m., morning, E.
O Full Moon, 20th day, 7 h .11 m. , morning, W.
© Last Quarter, 27th day, 3 h. 51 m ., morning, E.



> And this beloved face of dally living
> Lights in a thousand different ways for me
> With brave and starry reasons for not dying:
> There is too much to think about and see.

|  | Aspeots, Holldays, Helghts of High Water, Weather, Eto. |
| :---: | :---: |

ITh. All Fools Day, tides $\left\{\begin{array}{c}10.1 \\ 9.6 \\ \text { Colder and }\end{array}\right.$ Fr.
Sa.
C
M.
Tu.
W. Flour $\$ 900$ Tides $\{10.4$ clear then Wasbington Irving $\begin{aligned} & \text { born } 1783\end{aligned}\left\{_{10.5}^{10.5}\right.$ disagreeable.
 Elihu Yaie
born 1649 Tides $\left\{\begin{array}{l}10.7 \\ 10.6\end{array}\right] 4^{\text {th }}\{10,7$ Army Ger. Inv. Jugo- ロय) ©. \{10.8 Jugoslava Decl War re 4 . 10.3
 Bataan Disaster $\delta$ 念 $\mathbb{C} . \delta$ h $\mathbb{C} .\left\{\begin{array}{c}10.8 \\ 9.4 \\ \hline\end{array}\right.$ Norway \& Germany at $^{8.9} \quad$ Cooler



 Dr. Annie Cannon $\delta \mathbb{d} 1941 \mathbb{C}_{\text {Apo }}^{\text {in }}\left\{_{7.8}^{8.6}\right.$ Jenner intro. vacci- Tides $\left\{\begin{array}{l}8.4 \\ \text { nation } 1796\end{array}\right.$ winds. Pan-American | Day |
| :---: |
| in Peri. |$\left\{_{7.9}^{8.4}\right.$ More Swallow Day-Sardines $\left\{\begin{array}{l}8.5 \\ 8.8 \\ \text { com- }\end{array}\right.$ Arr. East port, Me. $\underset{\text { North }}{\text { Geese Flying }}$ Tides $\left\{\begin{array}{l}8.8 \\ 8.7\end{array} \quad\right.$ fortable Peepers are Tldes $\left\{\begin{array}{l}9.1 \\ 9.2\end{array}\right.$ indoors.

 Patriot's $\left\{\begin{array}{l}9.7 \\ 10.1\end{array} 18^{\text {thi }}\right.$ Tokyo $\begin{array}{l}\text { U. S. Bombs }\end{array}\left\{_{9.7}^{9.4}\right.$ Day. (Passover) Tides $\left\{\begin{array}{lll}1982 & \text { False }\end{array}\right.$ Pesach (Passover) Tides to $^{5.8}$ False Mark Twain
d. 1910 Tides $\left\{\begin{array}{c}10.5 \\ 9.8\end{array}\right.$
signs Fast Day-N.H. Tldes $\left\{\begin{array}{l}10.7 \\ 9.9\end{array}\right.$ of spring.
 Maple Sap Bulgaria Decl. War vs. $\{10.7$ Stops. Greece-Jugoslavia, 1941 9.5

 Hitler occ. Athens, Gr. $\left\{\begin{array}{l}9.9 \\ 9.0\end{array}\right] 6^{\text {th }}\left\{\begin{array}{l}10.2 \\ 9.1\end{array}\right.$ ${ }_{1941 \text { ( } 14 \text { th nation) }}\left\{_{9.0}\right.$ [26 9.1 Mars Tides $\left\{\begin{array}{l}9.7 \\ 0.1\end{array}\right.$ Showery.


## Fermer's Oalendar.

Do not lie abed all this month for fear of being made an April fool.

Fertilise and seed your grass patches.

Tend to your bulls and rams.

Set two hens the same day so the one can look after the two hatches.

Jot down in a notebook items to do for next year.

A water lily pool is easily constructed and a good time to plant the lilies is right about now. Small fish will do nicely in the pool.

Muddy shoes do not curry favor with the cook.

Stick to your winter flannels till the snow's gone off the mountain.
It's a good idea to get your storm windows off and painted and put away before your planting, plowing, and general chores of the land are upon you. Soon as the windows are off, your biannual cleaning job begins, madam.

Sprigs of hobble bush brought in from the woods and placed in water will blossom nicely now.

Distrust early beauty, seasons, and thaws. They'll not stay with you. Carly mowing, however, makes the best hay.

Berry bushes been cut back and tied up?

Animals will return your kindness - but never forgive your cruelty.
To break the kite flying record you'll liave to get yours up over 23,110 feet-which'll take at least 37,300 feet or some seven miles of wire.

## ASTREONOMICAL OALCULATIONS.

| E | Dayg. | 01 | Daye. |  | Days. | 0 | Days. |  | Daya. | 0 | , |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 14N. 57 | 7 | 1642 | 13 | 1817 | 19 | 1941 | 25 |  | 53 |
| 㫛 | 2 | $15 \quad 15$ | 8 | 1659 | 14 | 1832 | 20 | 1954 | 26 |  | 03 |
| - | 3 | $15 \quad 33$ | 9 | 1715 | 15 | 1846 | 21 | 2006 | 27 | 21 | 14 |
| A | 4 | $15 \quad 51$ | 10 | 1731 | 16 | 1900 | 22 | 2018 | 28 | 21 | 24 |
|  | 5 | $16 \quad 08$ | 11 | 1746 | 17 | 1914 | 23 | 2030 | 29 | 21 | 33 |
| Q | 6 | $16 \quad 25$ | 12 | 1802 | 18 | 1028 | 24 | 2041 | 30 | 21 | 43 |

- New Moon, 4th day, 5 h. 43 m., morning, E.

D First Quarter, 12th day, 5 h. 52 m., morning, W. Full Moon, 19th day, 5 h. 13 m., evening, W.
© Last Quarter, 26th day, 9 h. 33 m., morning, W.
KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 7. FOR ALI POINTS OUTSIDE NEW ENGLAND.

|  |  | $\begin{aligned} & \text { ses. } \\ & \hline \mathrm{m} \end{aligned}$ | $\left.\begin{gathered} \text { Sts. } \\ \text { n. } \\ \hline \end{gathered} \right\rvert\,$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1/Sa. | [ $540 \mid$ D | 7431 N | 1402\|41/27 | $9_{4}^{\frac{3}{4}}{ }^{10}{ }^{\frac{1}{4}}$ | 432 I | I 1036 |
|  | 2 S | 539 D | 744 | 14051128 | $10 \frac{1}{2} 11$ A | 504 H | H 1124 |
|  | 3 M. | 537 D | 745 | 14074129 | $11_{2}^{1} 11 \frac{3}{4} \mathrm{Ta}$ | 5 |  |
|  | 4 Tu | 536 C |  | $10^{1}$ | - $0_{4}^{1}$ Tau | sets |  |
|  | 5 W | 535 C | 747 | 141241 |  | 04 N |  |
|  | 6 | 534 C | 748 | 141541 |  | 0020 | - |
|  | 7 | 532 C | 749 | 1 | $2{ }_{2}^{1}$ |  | - 32 |
|  | S | 531 C |  | 141940 | $2{ }_{2}^{1} 3$ | 1147 P | P 4 |
|  | 9 S | 530 C | 7510 | 121 | $3 \frac{1}{4} 3 \frac{3}{4} \mathrm{C}$ | , |  |
|  | 10 M | 529 | 7530 |  | $44^{\frac{3}{4}}$ | 232 | P |
| 131 | 1 T | 5 | 754 |  | $4 \frac{3}{4}$ 5 ${ }^{1}$ |  | - |
|  | 2 |  |  |  | $5 \frac{3}{4}$ 6 ${ }^{1}$ |  |  |
|  |  | 25 C | 756 O | 14304010 | $6_{4}^{\frac{3}{4}} 77_{4}^{\frac{1}{4}} \mathbf{V}$ | 221 | M 809 |
| 13 | 4 Fr | 24. | 7570 | 14324011 | $8 \frac{1}{4}$ Vi | 25 | L 854 |
|  | S | 23 C | 758 |  | $8 \frac{1}{2} 9 \mathrm{Li}$ |  |  |
|  |  | $2{ }^{\text {B }}$ | 759 P | 14374013 | $9{ }^{1}$ | 0 1 | I 10 |
|  |  | 521 B | 800 P | 14394014 | $10{ }^{10}$ | 420 H | H |
|  | Tu | 520 B | 801 P | 14414015 | $10 \frac{3}{4} 11$ Sco | 453 F |  |
|  | W | 9 B | 802 P | 14 | $1 \frac{3}{4}-$ Sco | ris | 1207 |
|  |  | 18 B | 8 |  | ${ }^{1} \frac{1}{2} \mathrm{Sgr}$ | 858 o |  |
|  | 21 Fr. | 518 B | 804 P | 14464017 | $0 \frac{3}{4} 1_{4}^{1} \mathrm{Sgr}$ | 10050 | - 201 |
|  | 22 Sa | 517 B | 805 P | 14484018 | $1 \frac{1}{2} 2$ |  | 1 |
|  | 5 | 516 B | 806 | 14504119 | $2{ }^{\frac{1}{4}} 3 \mathrm{Cap}$ |  | 4 |
|  |  | 15 B | 807 P | 14524120 | $3 \frac{1}{4} 3 \frac{3}{4} \mathrm{Aqr}$ |  |  |
| 1 | T | 14 B | 808 P | 14534121 | $4{ }^{\frac{1}{4}} 4 \frac{3}{4}$ A Aqr | 2 |  |
|  | T | 514 B | 809 P | 145541 | $5{ }^{\frac{1}{4}} 6 . \mathrm{Ps}$ | 127 | 6 |
|  | 27 Th | 513 в | 809 P |  | $6{ }_{4}^{1} 7$ Ps | 203 L |  |
|  | 28 Fr | 5 | $810{ }^{\text {P }}$ | 14584124 | $7 \frac{1}{4} 8 \mathrm{Ar}$ | $236{ }^{\text {J }}$ | , |
|  | - | 512 в | 811 P | 14594125 | $8 \frac{1}{2} 9 \mathrm{Ar}$ | 307 H | 21 |
|  | 5 | 511 в | 812 p |  | $9_{4}^{3} \mathrm{~A}$ | 3 38 G | G 1009 |
|  |  |  |  |  | $10 \frac{3}{4}$ Tau | 407 | -1056 |



All on their shoulders wear the afternoon;
Light is the last fact and the first that falls
On Mortal eyes, and while they stare at tlme,
Light is a calendar on outdoor walls.


Farmer's Calender.

Keep up your courage, Boston was built in 1630 but did not become a city until this inonth, 1822.

Circus month!
Wash and shear your sheep. West Unity Mills, West Unity, O., will make your wool into blankets.

Root crops need the cleanest ground.

Mackerel, hake, and scup coming to the markets now.

If your town has a good doctor encourage him in every way to stay - especially by paying his bill promptly. Rural areas have 48 per cent of the population but only 31 per cent of the doctors.

Approximately four sevenths of the total present day agricultural production in our country today stems from plants domesticated by the American Indian such as corn, cotton, peanuts, pumpkins, squash, beans, potatocs, tobacco and tomatoes.

Finished grafting your fruit trees?

Josh Billings used to say he didn't care what a man's condition in life was; if lie was too much for that condition he was a hero.

As we have said for the past 151 years, the foot of the owner is still the best manure for the land.

Marriage is like the eating of an oyster. You can never tell whether it was bad or not until it's too late.

A man in debt is sure to fret.
A good way, it is said, to get rid of freckles is to go to a brook, catch a frog, and rub him alive on your face.

## ASTRONOMICAL OALCUEATIONS.

| 0000000000 | Days. | 0 |  | Days. |  |  |  | Days. |  |  |  | Days. |  |  |  | Daye. | 0 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 22N. |  | 7 | 22 | 24 | 43 | 13 |  | 311 | 11 | 18 |  |  | 25 | 25 |  | 24 |
|  | 2 | 22 | 08 | 8 | 22 |  | 49 | 14 |  |  | 14 | 20 |  |  | 26 | 26 | 23 | 23 |
|  | 3 | 22 | 16 | 9 | 22 |  | 54 | 16 |  | 318 | 18 | 21 |  | 3 | 27 | 27 | 23 | 21 |
|  | 4 | 22 | 23 | 10 | 22 | 25 | 59 | 16 |  | 32 | 20 | 22 |  | 3 | 27 | 28 | 23 | 18 |
|  | 6 | 22 | 30 | 11 | 23 | 30 | 04 | 17 | 23 | 3 | 22 | 23 |  | 3 | 26 | 29 | 23 | 15 |
|  | 6 | 22 | 37 | 12 | 23 | 30 | 08 | 18 | 23 | 32 | 24 | 24 | 23 | 3 | 25 | 30 | 23 | 12 |

- New Moon, 2nd day, 6 h. 33 m., evening, W.

D First Quarter, 10 th day, 10 h .35 m ., evening, W.
O Full Moon, 18 th day, 1 h. 14 m., morning, W.
© Last Quarter, 24th day, 4 h .08 m ., evening, E. KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 7. FOR ALL POINTS OUTSIDE NEW ENGLAND.



 ${ }^{1} 55$ 4 Fr. 509 A 816 Q 150742




 16 610 Th. 507 A 820 Q 151343

 I64 13 S-506A 821 Q 15154411 165 14 M. 506 A 822 Q 15154412 166 15 Tu. 506 A 822 Q 15164413
 r68 17/Th. 506 A 823 Q $1516451511 \frac{1}{4} 11 \frac{1}{2} / \mathrm{Sgr}$ 169 18 Fr. 507 A 823 Q 151745 O - 0 Sgr rises 1244


 r73 22 Tu. 507 A 824 Q 15174619
 175 24 Th. 508 A 824 Q 15174621 176 25 Fr. 508 A 825 Q 15174623 177 26 Sa .508 A 825 Q 15174724 178 27 S_ 509 A 825 Q 15164725


$18 \mathrm{r}|30| \mathrm{W} .|510|$ A $|825| \mathrm{Q}|151547| 28\left|10 \frac{3}{4} 11\right|$ G'm $357|\mathrm{C}| \mid 118$


It is the strength as well, the pain and love,
The living thoughts men had and never told,
That now the million leaves are murmuring of.
The men are dead. The trees are only old.

|  | $\dot{\square}$ | $\frac{\mathrm{AB}}{\mathrm{~B}}$ |
| :---: | :---: | :---: |
|  |  | Wlcomedd. 69 \% 6 ¢ 6 C. ${ }_{10.4}^{9.3}$ Sunny |
| 2 |  | P T. Barnum's ist tour 1835 . Tides $\left\{\begin{array}{l}9.8 \\ \text { and }\end{array}\right.$ |
| 3 |  |  |
| 4 |  | Corpus Christi, ¢ ¢ Stat. |
| 5 |  | U. S decl. War Bulgaria, $\mathbb{C l}_{\text {Roumania, Hungary } 1942}^{\text {runs }}$ high $\left\{\begin{array}{c}10.0 \\ 8.8\end{array}\right.$ |
| 6 |  |  |
| 7 |  | $\begin{gathered} \text { 1st Bank in U. S. } \delta \text { inst. } 1791 \\ \hline \end{gathered} \mathbb{C}_{\text {Apo. }}^{\operatorname{In}} \begin{aligned} & 9.5 \\ & 8.5 \end{aligned}$ |
| 8 | Tu. | 1932 Tides $\left\{\begin{array}{l}9.2 \\ 8.3\end{array}\right.$ Showers are |
| 9 | W. | Shevuoth- Tides $\left\{\begin{array}{l}8.9 \\ 8.2\end{array}\right.$ prevalent. |
|  |  |  |
|  |  |  |
| 12 | S |  |
|  |  | Tratit S. Pentecost, Macarrhur $\left\{\begin{array}{l}8.5 \\ 9.2\end{array}\right.$ |
|  |  | Flag Day. Tides $\left\{\begin{array}{l}8.7 \\ 9.8\end{array}\right.$ Fine then |
|  |  | Spring proc. Tides $\left\{\begin{array}{l}\text { Enternach } \\ 10.4\end{array}\right.$ rain |
|  |  | Father's Day. Tides ${ }_{11.0}^{9.8}$ Good |
|  | Th | Bat. Bunker Hill, 1775 Tides $\left\{\begin{array}{c}9.6 \\ 11.4\end{array}\right.$ haying |
| 18 |  | $\chi$ ¢ir.E. $\chi_{\text {¢ }}^{\text {Gr. Hel }}$ Lat. S. $C_{\text {low }}^{\text {runs }}$ Tides $\{10.0$ |
|  | Sa. |  |
|  |  | ©rinity Zurt o $¢$ ¢. $\{11.8$ Hot. |
|  |  |  |
|  |  |  |
|  | W | $\underset{\text { Haverhill, Mass. } 1740}{ }$ Tldes $\left\{\begin{array}{l}10.7 \\ 10.0\end{array}\right.$ growing |
|  |  | St. John, the Baptist. $\left\{\begin{array}{c}10.2 \\ 9.9\end{array}\right.$ weather. |
|  |  | ${ }_{1914}{ }^{\text {Salem }}$ ( Eq . Tides $\left\{\begin{array}{l}9.8 \\ 9.8\end{array}\right.$ Windy. |
|  |  | Finland \& U.S. S. S. R. at $\delta \boldsymbol{J} \mathbb{C} \mathbb{C} .\left\{\begin{array}{l}8.2 \\ 9.8\end{array}\right.$ |
|  |  | 1st. S.af. U. O $^{\text {Or.EL. }}$ E. $\left\{_{10.8}^{8.9}\right.$ Electrical |
|  |  | 1st (pass.) Clipper $\begin{aligned} & \text { to Europe } 1939\end{aligned}{ }^{8.8}$ disturbances. |
|  |  | St.Peter\&St.Pall. of ${ }^{\text {d }}$. Tides $\left\{\begin{array}{l}8.8 \\ 10.0\end{array}\right.$ |
|  |  |  |

## Farmer's Calendar.

Farm bookkeeping and cost accounting are widely advocated. Would you know how your costs compared with this 1926 average agreed upon by the American Council of Agriculture: Total cost of operating a 160 acre Iowa farm$\$ 5600$. . . of which $\$ 1184$ went for interest on the value of the land, $\$ 1800$ for your salary, $\$ 387$ for depreciation of buildings, $\$ 315$ for depr. machinery, $\$ 390$ for hired labor, and $\$ 90$ for insurance.
Wartime pets will undoubtedly suffer from a deficiency of Vitamin A. Conserve then any oils such as halibut, tuna, or shark; dairy products; salmon and sardines; and all green or yellow vegetablesfor your animals.

Like to do your own weather forecasting? Consult the fol-lowing-Luke xii 54; Luke 12 5: Matt. xvi 2; Matt. xvi 3 ; Job xxxvii 9 ; Job xxxvii 22 and Prov. xxv 23.

When men speak ill of you live so nobody will believe them.

True happiness lies in having work with a purpose to it.

It's all right to think about the world after a war but when you're attacked by bandits you usually don't think of much else than beating their heads off.

The best way to keep pigs inside a fence is not to have any pigs.

Love letters, if enclosed in red envelopes, go through the mail in South America, half rate. Love letters, in North America, coming into lawyer's hands, sometimes cost double.



Take for your joy this green earth hung with air.
It was never yours before I give it new.
Nothing is lonely, least of all yourself
Alone in sunlight in the long afternoon.
D.M.

## Aspects, Holldays, Heights of High Water, Weather, etc.

## Farmer's Calendar.

Battle of the
Somme 1916 Tides $\left\{\begin{array}{r}8.8 \\ 10.0\end{array}\right.$ Changeable Visitation W. © runs high $\{-$ Sevastopol fell
1942.

Tides $\left\{\begin{array}{c}10.0 \\ 8.8\end{array}\right.$
then Independ. 2nd
Day.
a.T.
$\mathbb{U}$
$\mathbb{C}$$\bigoplus_{\mathrm{Aph}}^{\text {in }} \mathbb{C}_{\text {Apo. }}^{\text {in }}$ $\underset{\text { d. } 1759}{\text { Sir William Pepperell }}\left\{\begin{array}{l}9.8 \\ 8.7\end{array} \quad\left[4^{\text {th }}\left\{\begin{array}{l}9.9 \\ 8.8\end{array}\right.\right.\right.$ б $\boldsymbol{*}$ ( . Tide $\left\{\begin{array}{l}9.6 \\ 8.7\end{array}\right.$ clear. $40^{\circ}$ below in Little $\not \subset$ in 86 . Tides $\left\{\begin{array}{l}9.4 \\ 8.6\end{array}\right.$ U. S. occ. Iceland $\delta \Psi \mathbb{C}$. $\left\{\begin{array}{l}9.1 \\ 8.6 \\ \text { Rain }\end{array}\right.$ End French Re- $\mathbb{C}$ En Eq. Tides $\left\{\begin{array}{l}8.8 \\ 8.7\end{array}\right.$ then Fch. Army landed at Newport, R. I. 1780 Tides $\left\{\begin{array}{l}8.6 \\ 8.8\end{array}\right.$ hot.
 Thoreau Tides $\left\{\begin{array}{l}8.5 \\ \mathrm{~b} .1817\end{array}\right.$ Dull with Draft resisters riot of in $89 .\left\{\begin{array}{c}8.6 \\ 10.0 \\ \text { show- }\end{array}\right.$ Bastile
Day Tides $\left\{\begin{array}{c}8.8 \\ 10.5\end{array}\right.$ ers following. St. SWithin Tides $\{11.1$
U. S.-Morocco
peace 1786
$\mathbb{C}$
runs
low. $\left\{\begin{array}{l}9.7 \\ \text { again. }\end{array}\right.$ peace 1786 in $^{10 \%}$ Santiago $\{11.6$
 4ty S. af. Ur. Tides $\left\{\begin{array}{l}11.9 \\ 10.4\end{array}\right.$ Rain.
 St, Margarel. The Three Tides $\left\{\begin{array}{l}11.8 \\ { }_{10.6} \text { Fine, },\end{array}\right.$ Pittsburg riots, $\left\{\begin{array}{l}11.4 \\ 10.5 \\ \text { 18, }\end{array}\right.$ haying days.
 Gen. Grant $\quad\left\{\begin{array}{l}10.2 \\ 10.1\end{array} \quad\left[22^{\text {nd }} \mathbb{C}_{\text {Eq. }}^{\text {on }}\left\{\begin{array}{l}10.8 \\ 10.8\end{array}\right.\right.\right.$ Fch. settle of C. $\left\{_{98}^{9.5}\right.$ Changeable Detroit $170160 \mathbb{C} \cdot{ }_{9.8}$ Changeable 5 tb S. a. Ur. St.James, Tides $\left\{\begin{array}{l}8.9 \\ 9.6 \\ \text { and }\end{array}\right.$ St. Anng. ठ $\widehat{\circ} \mathbb{C}$. Tides $\left\{\begin{array}{l}8.5 \\ 9.5\end{array}\right.$ sultry. Afghans defeat
British 1880 Tides $\left\{\begin{array}{l}8.4 \\ 9.6\end{array}\right.$ Rain now World War I
began 1914 o $2 \mathcal{Y}$. Tides $\left\{\begin{array}{l}8.8 \\ 9.6\end{array}\right.$ then began 1914
span. Armada
dest. 1588 ( $\begin{aligned} & \text { runs } \\ & \text { high. }\end{aligned}$ Tides $\left\{\begin{array}{l}8.4 \\ 9.7\end{array}\right.$ fine. New Orleans $\quad<\mathbb{Z} \odot$. Tides $\left\{\begin{array}{l}8.5 \\ 9.8\end{array}\right.$


The planetary system will go on this month as usual; distrust anybody who tells you to the contrary.

Be a philosopher and have as few wants as possible-cut off your legs and then you won't need any boots.

If you go to the movies and happen to brush your coat against the heads of folks in front of you-possibly ruining their hair and giving them severe stiff necks-be sure to lean over and tell them it was their own fault for having come in first.
Haying in the hot sun is not the very best remedy for heart trouble.

Don't neglect Ma's posies.
The first American ship to visit Japan arrired there the 18 th of this month, 1799. No doubt certain others will visit there in 1943 on less peaceful missions.

Canning is important this year. Rubber jar rings and glass jars have been on the housewives priority list since the start. Be sure, however. you are familiar with 1943 technique in this. We've learned much in recent years.

Also look into the drying of apples and the like-a custom nuch used in earlier days by our foremothers.

The ncarest tall tree is not where you should go during a thunder storm. It's better to get a little wet than end up a burned coolie.

You'll rest easier if you make it a solemn rule in your house that none of your youngsters are allowed in boats or canoes until they have learned to swim-no matter who is with them.

| AUGUST, Eighth Mon |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Astronomical calculati |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Days. |  | \% |  | Days |  |  |  |  |  |
|  |  | 18N.08 |  |  |  |  | 19 |  |  |  |  |  |
|  | 2 |  |  | 1616 | 14 |  | 20 |  |  |  |  |  |
|  | 3 |  |  |  |  | 14 | 1 |  |  | 27 |  |  |
|  |  |  | 10 |  | 16 |  | 22 |  |  | 28 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 2 |  | 18 |  | 24 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | in' Sea, | $\mathrm{a}_{1} 1 \mathrm{D}$ | $\mathrm{s} 1$ |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 536 |  |  |  |  |  |  |  |  |  |  |
|  | 3 T | 37 |  | - 1 |  |  |  | ${ }^{3} 4 \mathrm{Vir}$ |  |  |  |  |
|  | 4 W | 39 |  |  |  |  | $2 \frac{1}{4}$ | ${ }^{\frac{1}{4}}$ Vir |  |  |  |  |
|  |  | . 540 |  |  |  |  |  | Lib |  |  |  |  |
|  |  | 41 |  |  |  |  | $3 \frac{3}{4}$ | ${ }_{4}^{3} \mathrm{Li}$ |  |  |  |  |
|  | 7 S | 42 | - | - |  |  | $4 \frac{1}{4}$ | ${ }_{4}^{1} \mathrm{Li}$ |  | 22 |  |  |
|  | 8 S | 43 | 75 |  |  | $84^{3}$ |  | ${ }_{4}^{1}$ S |  |  |  |  |
|  | 9 M | 44 |  |  |  |  |  | , |  |  |  |  |
|  |  |  | 753 |  | 10 |  | 7 | Sg |  |  |  |  |
|  | 11 W | D | - 752 | N 1 |  |  | 8 | So |  | 13 c |  |  |
|  | 12 T | 47 D | 750 |  |  |  |  |  |  | 04 c |  |  |
|  | 13 F | 548 D | - 749 |  | 13 |  |  |  |  | 03 c |  |  |
|  | 14 | 5 | 78 | N 1 | 1 | 1410 |  | ${ }^{3} \mathrm{Cap}$ |  | 11 c |  |  |
|  | 15 S | 550 D | 746 | N 1 | O | O 11 |  |  |  |  |  |  |
|  | 16 M | 551 D | 745 | $N 1$ |  |  |  | A |  | L |  |  |
|  | 17 Tu | 552 D | D 73 | $N 1$ |  |  |  |  |  | 09 J |  |  |
|  | 18 W | 553 D | - 742 | N 1 | 17 |  |  | Ps |  | 43 I |  |  |
|  | 19 Th | 554 D | 740 | N 13 | 4818 |  |  |  |  |  |  |  |
|  | 2 Fr . | 555 E | ¢ 739 |  |  |  |  |  |  |  |  |  |
|  | 21 S | 556 E | ¢ 73 | m 1 | 20 |  |  | Tau |  |  |  |  |
|  | S- | 557 E | 736 |  | 4721 |  |  | T |  | 57 C |  |  |
|  | 3 M . | 559 | 7 74 |  | 22 |  |  |  |  |  |  |  |
|  | 24 Tu . | 600 E | 732 |  |  |  |  |  |  |  |  |  |
|  | 25 W. | 601 E | 7 | m 1 |  |  |  | Cn |  |  |  |  |
|  | 6 Th . | 602 E | -7 79 | m 13 | 4625 |  | $9 \frac{1}{4}$ |  |  |  |  |  |
|  | 27 Fr | 603 E | 28 | m 1 |  | 6 |  |  |  | 57 B |  |  |
|  | 28 Sa | 604 E | 26 | m 1 | 4527 | 710 |  |  |  | - |  |  |
|  | 29 S | 605 F | - 24 | L 13 | 4528 |  |  | Leo |  | 46 D |  |  |
|  | 3 M. | 606 F | 723 | L 13 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | Jo, |  |  |

## AUGUST hath 31 days.



Agaln, walk barefoot in the loose black loam.
It will be long before you leave so plain
A finished thing as footprints anywhere.
Lift stone. Llght ire. Shout in the silent wood.

> 0

> 10 Tu.
> 11 W.
> 12 Th.
> 13 Fr .
> 14 Sa.
> 15 C
> 16 M.
> 17 Tu.
> 18 W.
> 19 Th.
> 20 Fr .
> 21 Sa.
> ${ }^{22} \mathrm{C}$
> 23 M .
> 24 Tu . 25 W .
> 26 Th.
> 27 Fr .
> 28 Sa.
> 29 C
> 30 M .
> 31 Tu.

Aspects, Holidays, Heights of High Water, Weather, etc.

 St. Stephen. Tldes $\left\{\begin{array}{l}9.8 \\ 9.0\end{array}\right.$ and Boston "Liberty Tree"
cut down 1775 $\boldsymbol{q}$ ©. $\left\{\begin{array}{l}9.7 \\ 9.0\end{array}\right.$ per1st "talkie" picture
shown 1920 \$ $\mathbb{\Psi}$. $\left\{\begin{array}{l}9.5 \\ 9.1\end{array}\right.$ fect. Transfigu- $\begin{gathered}\text { on } \\ \text { ration }\end{gathered}$ Tldes $\left\{\begin{array}{l}9.3 \\ 9.1\end{array}\right.$ Queen Caroline Tides $\left\{_{9.1}^{9.0}\right.$ Thunder 7th $\mathcal{Z}$. af. ©r. Tides $\left\{\begin{array}{l}8.8 \\ 9.8\end{array}\right.$ storms. Trad. shooting star display St. Lawrence.

Tldes $\left\{\begin{array}{c}8.5 \\ 9.6\end{array}\right.$ T14es $\left\{\begin{array}{l}8.6 \\ 9.4\end{array}\right.$

So long, Sirius! Tides $\left\{\begin{array}{l}\text { I0. } 0 \\ \hline 0\end{array}\right.$ Kinse Chapel $\underset{\text { stone 1. } 1749}{ } \mathbb{C}_{\text {lows. }}^{\text {rims }}\left\{\begin{array}{l}88.5 \\ 10.5\end{array}\right.$

 1st book printed | bin |
| :---: |
| (Mentz) |
| 1442 | \(\mathbb{C}_{Par.}^{Par.} \begin{aligned} \& 9.8 <br>

\& 11.5\end{aligned}\) 8th $5 . a f . \mathbb{C r} . \mathbb{C}_{\text {Peri. }}^{\text {in. Tides }}\{\overline{10.3}$ The R100 arr. $O$ in Aph. Tides $\{11.8$ England 1930 f in Aph. 10 \{ 10.7

 A bear invaded West Swanzea, N. II. 1919 Caze co tide rose 20 ft. 1635 Tides \{10.5 Not so Count Rumford Tides $\left\{\begin{array}{l}10.0 \\ 10.1 \\ \text { d } \\ \text { oppressize. }\end{array}\right.$
 6介๔. $\square \delta \odot$. Tides $\left\{_{9.4}^{8.7}\right.$ Cooler. St, Bartholomew. oh $\mathbb{C}$. $\psi_{\mathrm{T}}^{\mathrm{in}} \mathrm{Aph} .\left\{\begin{array}{l}8.2 \\ 9.2\end{array}\right.$ St, James, © runs high. $\left\{\begin{array}{l}8.1 \\ 9.1 \\ \text { Fine. }\end{array}\right.$ ${ }^{1 \text { st petr. well op. Tides }}\left\{_{\text {Penn. }}^{8.1}{ }_{9}^{8.1}\right.$ Flying
 St.Angustine. $\delta \mathbb{Z} \mathbb{C} \mathbb{C}{ }_{\text {A } 1 \mathrm{o}}^{\ln }$. ${ }^{8.5} 9.5$ A gain
 S.S. Metis sank Tides ${ }_{1872}^{9.7}{ }_{9.0}$ Bunyan d. 688 . $\mathbb{1}$..$~$
fine.
TIdes $\left\{\begin{array}{l}9.8 \\ 9.2\end{array}\right.$

## Farmer's Calendar.

From the middle of last month to the end of this is the best time to bud fruit trees. From before early frost to the first of December tar your fruit trees . . to prolect them from the ascent of the female bugs of the canker worm.

There are few things which at very small expense add so much to the looks of a farm home as a well cut lawn.

It is said that a pickle or lemon caten at night after you have had coffee will prevent sleeplessness.

Little piles of sand under your growing melons will help them.

A Brewster (Cape Cod) superstition says that running vincs cnt close to the ground in the full moon of August for one or two years will be exterminated for good.

Common mud is still the best remedy for bee or wasp stings.

Cut roses can be made to last nearly two weeks by boiling the last inch of theil stems for 20 minntes then removing the boilerl inch (stems or flowers must not touch the pan) Then each day give fresh water and cut back the stem slightly. Set in a cool place at night.
Almost every wrong act of the horse is caused by fear. excitement, or mismanagement.

Things to avoid this month: apoplexy, rheumatism, typhns, colds, creditors, poor rela tions, rusty nails, mosquitoes, and the devil.


D First Quarter, 7th day, 8 h. 33 m., morning, E.
O Full Moon, 13th day, 11 h. 40 m., evening, E.
© Last Quarter, 21st day, 3 h. 06 m., morning, E.

- New Moon, 29th day, 7 h. 29 m., morning, E.

|  | $\left.\right\|_{\text {n. }} ^{\text {niseg. }} .$ | $\underset{\text { sty. }}{\substack{\text { min }}}$ |  |  | $\begin{aligned} & \text { en. } \\ & \hline \text { s. } \\ & \text { nen } \\ & \text { n. } \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 W .608 |  | , | 2 | $1{ }^{1}$ | 8281 J |  |
|  | 2 Th. 609 F | 718 L | 44 | 312 | L | 856 | 253 |
| 246 | 3 Fr. 610 F | 716 L | 130644 | 2 | $2 \frac{1}{2} \mathrm{Lib}$ | 924 g | + 337 |
|  | 4 Sa. $611 . \mathrm{F}$ | 714 L | 130343 | $5{ }^{5} 2 \frac{3}{4}$ | 3 Sco | 955 | - 423 |
|  | 5 S. 612 F | 713 L | 130043 | $6{ }^{1} 1$ | $3 \frac{3}{4} \mathrm{Sc}$ | 1030 | 512 |
|  | 6 M. 613 | 711 K | 125843 | $7{ }^{4} 4$ | $4{ }_{2}^{1} \mathrm{Sgr}$ | 1109 D | 603 |
| 250 | 7 Tu .614 G | 709 K | 125542 | 5 | $5{ }_{2}^{1} \mathrm{Sgr}$ | 1155 c | 65 |
|  | 8 W .616 G | 707 K | 125242 | 96 | $6 \frac{1}{2}$ Cap |  | 75 |
| 252 | 9 Th. 617 G | 706 к | 124942 | 107 | 7 | 1249 C |  |
| 253 | 10 Fr. 618 g | 704 K | 641 | 118 | 81 ${ }_{2}^{1} \mathrm{Aqr}$ | 150 c |  |
| 254 | 11 Sa .619 G | 702 K | 124441 | 12 | $9 \frac{1}{2}$ Aqr | 259 | 10 |
|  | 12 S - 620 G | 700 K | 124140 | 1310 | $10 \frac{1}{2} \mathrm{Ps}$ | 411 | 11 |
|  | 13 M. 621 G | 659 K | 123840 | O 11 | $11 \frac{1}{2}$ Psc | 526 F |  |
| 257 | 14 Tu .622 H | 657 J | 123540 | 14 | 0 Psc | rises | 1247 |
| 258 | 15 W .623 H | 655 J | 123239 | 15 | $0 \frac{3}{4}$ A | 811 |  |
|  | 16 Th .624 H | 653 J | 123039 | $16{ }^{1} \frac{1}{4}$ | $1 \frac{1}{2}$ A | 844 | 2 |
|  | 17 Fr. 625 r | 652 J | 122739 | 172 | $2 \frac{1}{2}$ | 918 |  |
| 361 | 18 Sa .626 H | 650 J | 122438 | 193 | $3 \frac{1}{4}$ | 954 |  |
|  | 19 S. 627 H | 648 J | 1221382 | 20 3 $\frac{3}{4}$ | 仡 | 033 |  |
|  | 20 M. 628 H | 646 J | 121838 | $21.4 \frac{1}{2}$ | G | 115 | 3 5 |
|  | 21 Tu .629 н | 644 J | 121537 | $22.5 \frac{1}{2}$ |  |  |  |
|  | W. 630 I | 643 I | 121237 | 236 | $6{ }^{\frac{3}{4}} \mathrm{C}$ | 201 |  |
|  | 23 Th. 631 I | 641 I | 121037 | 24 | $7{ }^{\frac{3}{4}} \mathrm{C}$ | 1 | 8 |
|  | $24 . \mathrm{Fr} .633 \mathrm{I}$ | 639 I | 1207 | 258 | $8{ }_{4}^{3}$ L | 144 c | 9 |
|  | 25 Sa. 634 I | 637 I | 120436 | 26 | $9 \frac{1}{2}$ Leo | 2391 C |  |
| 269 | 26 S-635I | 636 I | 120136 | 2710 | $10^{\frac{1}{4}} \mathrm{Vir}$ | $337 . \mathrm{D}$ | 03 |
| 70 | 27 M. 636 I | 6341 | 115835 | 2810 | 11 Vir | 435 E | 112 |
|  | 28 Tu .637 L | 632 I | 115535 | $2911 \frac{1}{2}$ | $\frac{3}{4}$ Vir | 534 |  |
| 272 | 29 W .638 | 630 H | 115335 |  | $0^{4} \mathrm{Lib}$ | sets | 12 |
|  | 30 Th. 639 J | 629 | 1150,34 | $0 \frac{1}{4}$ | $0 \frac{1}{2}$ | 728 |  |



Do you know a country where tbe brave are brave,
Where no one hates the lonely or the wise,
A courtry where, till death, no mortal dies?
It is not childhood. It is not the grave.


## Farmer's Calendar.

A bush in the hand is worth two in the bird.
Had that vacation for the whole family? Winter will come.

Don't be afraid to say "No, we can't afford it." This will increase respect for you-not diminish it.

If you want to have comfortably fitting shoes buy them in the afternoon when the exercisc of the day has spread the muscles of your feet.

Get rid of all your robber cows, and unpromising birds.

Save your small potatoes and inperfect cabbage heads for your hens this winter.

Scatter sand on the hen house floor before cold sets in and it won't dry ont.

A pair of full grown Bull snakes will kecp two or three aeres of hay fields free from gophers and moles and field mice-but you can have 'em brother.

Never buy a horse for family use where the woinen folk are to drive him without at least one week's trial. If he is put through his paces and sent up against trucks, steam engines, and other scarey things he will develop his good or bad faith in that tine.

Good time to sow Fall grass sectl.

Hang your popeorn in a Nack near the fireplace until it is well curch. Then it will pop better.

For once let's lay plans now for a neat back porch this winter-if it floods over, put in a drain. If there is not an adcquate garbage can, remedy that.



Now the misty weather blows to blue and clean
Over these charted boundaries and shores.
Remember color, bid the moment stay,
Touching the gaudy leaf to make it yours.


## 1943] NOVEMBER, Eleventh Month.

ASTRONOMICAL CALCUKATIONS.

| d | Daym. | 0 | 1 | Days. | $0 \quad 1$ | Days. | $0 \quad 1$ | Days. | 0 , | Days. | $0 \quad 1$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 을 | 1 | 148. | 18 | 7 | 1610 | 13 | 1751 | 19 | 1922 | 25 | 2040 |
| , | 2 | 14 | 37 | 8 | 1627 | 14 | 1807 | 20 | 1936 | 20 | 2052 |
| $\overline{8}$ | 3 | 14 | 56 | 9 | 1645 | 15 | 1823 | 21 | 1950 | 27 | 2103 |
| \% | 4 | 15 | 15 | 10 | 1702 | 10 | 1838 | 22 | 2003 | 28 | 2114 |
| $\infty$ | 5 | 15 | 33 | 11 | 1719 | 17 | 1853 | 23 | 2016 | 29 | 2125 |
| © | 0 | 15 | 52 | 12 | 1735 | 18 | 1908 | 24 | 2028 | 30 | 2135 |

D First Quarter, 4th day, 11 h. 22 m., evening, W.
O Full Moon, 11th day, 9 h. 26 m., evening, E.
© Last Quarter, 19th day, 6 h .43 m ., evening, W.
New Moon, 27th day, 11 h. 23 m., morning, E.
key letters refer to corrections table, page 7. for all points outside new england.

 306 2 Tu. 718 n 537 d 101928
307 3 W. 719 N 536 D 10 1728
308 4 Th. 720 N 535 D 101428
309
3106 Sa. 723 N 532 D
311
312 8M. 725 N 530 D
313 9 Tu. 7
31410 W.
31511 Th .7290 .527 c
32612 Fr. 730 o 526 C
31713 Sa. 7310 O 525 C
31814 S. 733 o 524 c
31915 M. 7340 - 523 C
32016 Tu .735 o 522 c
32117 W .736 o 521 C
32218 Th. 738 o 520 C
32319 Fr. 739 o 519 C
32420 Sa .740 O 519 C
$32521 \mathrm{~S}-741 \mathrm{o} 518 \mathrm{C}$
32622 M .743 O 517 C
32723 Tu. 744 р 517 в
32824 W. 745 P P 516 в
32925 Th .746 P 515 B
33026 Fr. 747 p 515 в
33 r 27 Sa .748 P 514 b

33329 M. 751 P 513 в
$334|30 \mathrm{Tu} .752| \mathrm{P} \mid .513 \mathrm{~B}$
95828
9552814 -
$95328150 \frac{1}{2} \quad 0_{4}^{3} \mathrm{G}^{\prime} \mathrm{m} 659 \mathrm{C}$
$95128161_{\frac{1}{4}} \quad 1 \frac{1}{2}$ G'm 743 B
94929
94729
94529
94229
94029
93830
936302
93530
93330
93131
92931
$927312910 \frac{3}{4} 11 \frac{1}{4}$ Sco
92632
(2) $11 \frac{1}{2}-\mathrm{Sgr}_{0}^{1}$
$92432100{ }_{4}^{\frac{1}{4}} \operatorname{Sgr} \quad 630 \mathrm{C}$
92332
92133

| 2 | $0 \frac{3}{4}$ | 1 | Cap |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 1 |  |  |

724 в 826 в


The roots go deeper into the darkness nove
Of earth as rich as time. They lift the rain
From long ago to buds on the latest bough.
No country weather comes or clears in vain.


## Farmer's Calendar.

A man could do worse by himself than to make a study of the lives of our saints. It is in the saints we see the happy mingling of man and God.

Sixteenth century prophet Doctor Nostradamus foresaw this nation with Thursday as its national holiday (Thanksgiving) and winning increasing "fame, praisc, and domination in the world."

One of the amazing exhibits of the 1942 Boston Flower Show was that of 56 different kinds of lily bulbs ordinarily blooming from May to Octo-ber-all in bloom on the same day in Marcli. As a farmer of course you know how this was done.

If your chicken house is sufficiently removed from your house, odd bits of grain will attract rats there-and if there are sufficient of these, weasels will appear and kill the rats-which is then the time to move your chickens to some other place and start all over again.

A new cycle of sun spots began in 1033 so don't look to same for a change in luck or weather for a while Jct as this one lasts until 1961.

Do not confuse sliooting stars - traditionally plentiful this month-with inan's pitiful imitations.

Fogs may be thick-wisdom will show through them.

In baling Pa's boots the oven door should be left slightly ajar, the tops tested witl a fork every so often, and position changed to insure an even hardness. A slight burning odor will indicate when they should be removed.

## 1943] DECEMBER, Twelfth Month.

AgTHONOMICAL CALOULATIONS.

|  | Day | 0 | , | Daya. | 0 |  | Daje | 0 |  |  | Daye. | 0 |  |  | Days. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | $21 \mathrm{s}$. |  | 7 |  | 34 | 13 |  | 08 |  | 19 |  |  |  | 25 |  | 25 |
|  | 9 | 21 | 54 | 8 |  | 41 | 14 |  | 12 |  | 20 | 23 | 26 | 6 | 26 | 23 | 23 |
|  | 8 | 22 | 03 | 9 | 22 | 47 | 18 |  | 15 |  | 21 | 23 | 326 | 6 | 27 | 23 | 21 |
|  | 1 | 22 | 11 | 10 |  | 53 | 16 |  | 18 |  | 22 | 23 |  | 7 | 28 | 23 | 18 |
|  | 8 | 22 | 19 | 11 | 22 | 58 | 17 | 23 | 31 |  | 28 | 23 | 26 | 6 | 29 | 23 | 15 |
|  | 0 | 22 | 27 | 12 | 23 | 03 | 18 | 23 | 32 | 2 | 24 | 23 | 26 | 6 | 30 | 23 | 12 |

D First Quarter, 4th day, $7 \mathrm{~h} .03 \mathrm{~m} .$, morning, E.
O Full Moon, 11th day, 12 h .24 m. , evening, W.
© Last Quarter, 19th day, 4 h. 03 m., evening, W.

- New Moon, 26th day, 11 h .50 m ., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE. PAGE 7. FOR ALL POINTS OUTSIDE NEW ENGLAND.

|  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1/W. 753 P | $513{ }^{\text {a }}$ |  |  |  |  |  |
| 336 | 2 Th .754 P | - 512 в |  |  | $3 \frac{3}{4} \mathrm{Aqr}$ |  |  |
| 337 | 3 Fr. 755 | - 512 в |  | , | $4 \frac{1}{2} \mathrm{Psc}$ |  |  |
|  | 4 Sa .756 | 512 в | 916 | 5 | $5 \frac{3}{4}$ Psc | 1253 F |  |
|  | 5S. 757 P | 512 B |  |  | 6 | 103 |  |
| 340 | 6 M .758 P | 511 B |  | 97 | $7 \frac{3}{4}$ | 212 I |  |
|  | 7 Tu .759 P | 511 B | 9123510 |  | $8 \frac{3}{4}$ | 320 J |  |
|  | 8 W .800 P | 511 B | 1136 |  | $9{ }^{\frac{3}{4}}$ |  | 103 |
|  | 9 Th. 801P | 511 B | 9103612 |  | $10^{\frac{3}{3}}$ | 533 m |  |
|  | ${ }^{0}$ Fr. 802 P | -511 ${ }^{\text {B }}$ | 9093714 | 411 | 112 $\frac{1}{2}$ G | 637 O |  |
|  | $1 \mathrm{Sa}$. | 511. ${ }^{\text {B }}$ | $90937 \bigcirc$ |  |  | rises |  |
|  | $12 \mathrm{~S}-803 \mathrm{P}$ | 511 B |  |  |  |  |  |
|  | 3 M 804 p | 512 B | 9073816 |  | $1{ }_{4}^{1}$ | 712 в |  |
|  | 4 Tu .805 P | 512 B | - | $7{ }^{1} 1^{\frac{3}{4}}$ | $1{ }^{3}$ | 806 B |  |
|  | 5 W .806 Q | 512 A | - | $82^{1}$ | $2{ }_{2}^{1} \mathrm{Le}$ | 902 C |  |
|  | 16 Th. 807 Q | Q 512 A | 9063919 | 93 | $3 \frac{1}{4}$ | D | 42 |
|  | 17 Fr. 807 Q | 2 13A | 9054020 | 0 | 4 Leo | 1056 E |  |
|  | . ${ }^{\text {a }}$ | 513A |  | 14 | $4_{4}^{3} \mathrm{Vir}$ | 1155 F |  |
|  | 9S. 809 Q | 2 13A | 90541 | 2.5 | $5 \frac{3}{4}$ Vir | morn | 63 |
|  | 09Q | 4 A | 90441 | 6 | $6 \frac{1}{2} \mathrm{Lib}$ | 1254 H |  |
|  | - | ${ }^{\text {d }}$ | 9044224 |  | 7 | 153 I |  |
|  | 2 W .810 Q | 2 15 A |  | 573 | $8 \frac{1}{4}$ | 255 K |  |
|  | h. 811 Q | 515 A | 43 | $8^{3}$ | ${ }^{1}{ }_{4}^{1}$ Sco | 359 L | 3 |
|  | r. 811 Q | 2 16 A | 4 2 |  | 10 Sco | 505 N | 102 |
|  | a. 811 Q | Q 516 A | 044428 |  | $10 \frac{3}{4} \mathrm{Sgr}$ | 6140 |  |
|  | S. 812 Q | 2 17 A | 90444 앙 |  | $11 \frac{3}{4} \mathrm{Sgr}$ | sets | 121 |
|  | 7 M .812 Q | Q 518 A | 90545 |  | 0 Cap | 609 B | 1 |
|  | 2 Tu .813 a | 518 A | 5 |  | 03 ${ }_{4}$ Cap | 716 C |  |
|  | $9 \mathrm{~W} .813{ }^{\text {Q }}$ | Q 19 A | 46 |  | $1{ }_{2}^{1}$ Aqr | 828 D |  |
|  | 30 Th. 813 Q | 520 A | 90646 |  | $2{ }_{2}^{1} \mathrm{Aqr}$ | 940 E |  |
|  | Fr. 813 P | 520 B | 90747 |  |  | , |  |

## DECEMBER hath 31 days.

It is no longer I , and mine, my grief,
My gladdened heart, my luck, my will be done,
But all mankind at home on earth in peace
That needs our passion with our wisdom now.

| $\stackrel{\square}{1}$ |
| :---: |

1/W. 2 Th. Fr. 4) Sa .

9 Th .

Aspects, Holidays, Heights of High Water, Weather, etc.
 Tlees $\left\{\begin{array}{l}9.5 \\ 10.6\end{array}\right.$
T1des $\left\{\begin{array}{c}\text { Stevenson } \\ 10.2\end{array} \begin{array}{c}\text { Stevends } \\ \text { d.1894 }\end{array}\right.$

 St.Nitholas. © on Eq. $\left\{_{9.3}^{9.6}\right.$ Snows

 Free Fr. \& China decl. $\left\{\begin{array}{l}10.8 \\ 0.8 \\ \text { war vi }\end{array}\right.$ Milder war

 war on Axis $19+1$ lit Lat. S. O $^{\text {Cl }}$ -
 Hungary, Bulgaria \& (12th) ${ }^{\text {rmins }}\{9.1$ Rumania, war vs. U.S. 1911 Chilgh. $10 .=$ G. Washington f $^{\text {Stat. in }}$ 12. $\left\{\begin{array}{l}8.9 \text { Windy. } \\ \text { d. } 1799\end{array}\right.$
 Czecio Slav ${ }^{\text {dect. war }}$, 8.5 Unsetlled. Thorne Glacier $\& 2 \mathbb{C} \cdot \mathbb{C}_{\text {Apo. }}{ }^{\text {In }}{ }_{8.9}^{8.8}$ with

snow
 Canada \& Rele decl. $\delta \Psi \mathbb{C} \cdot \mathbb{C}_{\mathrm{Ea} .}^{\mathrm{on}}\{8.2$ St, Thom. Foreffither's $\left\{\begin{array}{l}8.5 \\ 8.2 \\ \text { Day }\end{array}\right.$ Pleasant WIN. ©on. W̧, ชุ Cr. El. $\{8.8$ EEE. ©on.V, 7 E. \{8.8 $_{8}$ enough.

 Rumania \& Hungary 1941 Tides $_{\text {¢ } 8.8}$ (2fristmã. Tides $\left\{\begin{array}{c}10.1 \\ 0.1 \\ \text { Sharp. }\end{array}\right.$
 St, John, Evang. $\mathbb{C}_{\text {low }}^{\text {mans }}\{11.2$ Storm of
 Holy Inn, or Childermas, ${ }^{(28 t h)} \quad\left\{\begin{array}{l}9.9 \\ 11: 4\end{array}\right.$
 Invontory Tides $\left\{\begin{array}{l}10.0 \\ 8.8\end{array} \quad\right.$ Colder.

## Farmer's Caiendar.

Great is the contention of Holly and Ivy whether Master or Dame wear the brecches.

All flesh is grass but beef is not water cresses.

After a large Christmas dinner, and mince pie, if during the night you see comets with green tails, you do not necessarily lave to climb the nearest tree in your night shirt. Reflect upon your sins and try a bit of soda. The "Wilcoxes" will leave.

Pay all your little bills promptly. It is easier to settle with one large creditor than forty little ones.

In slipping on the ice consider well the desirability of a broken wiost, as compared with a broken nether.

Perhaps you have no thought of quitting this unirerse or the affairs of the world but remember that the life of man like that of vegetable creation has its spring, summer, autumn, and winter. Provide for your family.

A howl from the north brings a scream from the east, a whisper from the south, and a sing from the west (provided the wind goes round that way).
Boys in camp will appreciate your Christmas remembrances this year.

The greatest of men have been trained to work with their hands.

Mind needs contact with other minds to rub it into activity.

The most extraordinary thing about a farmer, quoth the beautiful lady, is that he can have yew when he pleases. Goodbye for now.

VEKU8, MAR8, JUPITER AND BATURN, 1943.
Below are given the times of the rising or setting of the Planets named, on the first eleventh and twenty-first days of each month. The time of the rising or setting of any one of sald Planets between the days named may be found with sufficient accuracy by interpolation. For explanation of keys (used in adjusting times given, to your town) see page 5.


## LENGTH OF TWILIGHT

Subtract from time of sunrise for dawn.
Add to time of sunset for dark

| Latitude | $\begin{gathered} 25^{\circ} \mathrm{N} \\ \text { to } \\ 30^{\circ} \mathrm{N} \end{gathered}$ | $\begin{gathered} 31^{\circ} \mathrm{N} \\ \text { to } \\ 36^{\circ} \mathrm{N} \end{gathered}$ | $\begin{gathered} 37^{\circ} \mathrm{N} \\ \text { to } \\ 42^{\circ} \mathrm{N} \end{gathered}$ | $\begin{gathered} 43^{\circ} \mathrm{N} \\ \text { to } \\ 47^{\circ} \mathrm{N} \end{gathered}$ | $\begin{gathered} 48^{\circ} \mathrm{N} \\ \text { to } \\ 49^{\circ} \mathrm{N} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | h m | h m | h m | h m | h m |
| Jan. 1 to Apr. 11 | 120 | 126 | 133 | 142 | 150 |
| Apr. 11 to May 3 | 123 | 128 | 139 | 151 | 204 |
| May 3 to May 15 | 126 | 134 | 147 | 202 | 222 |
| May 15 to May 26 | 129 | 138 | 152 | 213 | 242 |
| May 26 to July 23 | 132 | 143 | 159 | 227 |  |
| July 23 to Aug. 4 | 129 | 138 | 152 | 213 | 242 |
| Aug. 4 to Aug. 15 | 126 | 134 | 147 | 202 | 222 |
| Aug. 15 to Sept. 6 | 123 | 128 | 139 | 151 | 204 |
| Sept. 6 to Dec. 31 | 120 | 126 | 133 | 142 | 150 |

## MORNING AND EVENING STARS, 1943

(A Planet is called Morning Star when it is above the horizon at sunrise, and Evening Star when it is above the horizon at sunset. More precisely, it is a Morning Star when it is less than $180^{\circ}$ west of the Sun in right ascension and Evening Star when it is less than $180^{\circ}$ east. When the planet is near conjunction or opposition, the distinction is unimportant.)

Mercury will be favorably situated for being seen as an Evening Star when near its greatest eastern elongations, about January 8, April 30, August 29, and December 22 . On these dates it will set $1 \mathrm{~h} 30 \mathrm{~m}, 1 \mathrm{~h} 51 \mathrm{~m}, 0 \mathrm{in} 46 \mathrm{~m}$, and 1 h 24 m , respectively, after sunset. It will be seen as a Morning Star when near its greatest western elongations, about February 28, June 18, and October 10, on which dates it will rise $1 \mathrm{~h} 00 \mathrm{~m}, 1 \mathrm{~h} 4 \mathrm{~m}$, and 1 h 31 m , respectively, before sunrise.

Venus will be an Evening Star until September 5 and a Morning Star for the remainder of the year. Venus attains maximum brilliancy on July 31 and October 13.

Mars will be a Morning Star until December 5 when it comes into opposition with the Sun. It will be an Evening Star from December 5 until the end of the year.

Jupiter will be seen as a Morning Star until January 11 and from July 30 until the end of the year. From opposition to the Sun on January 11 to conjunction on July 30 it will be an Evening Star.

Saturn graces the evening sky as an Evening Star until it reaches conjunction with the Sun on June 7, and again after it passes opposition on December 15. From June 7 to December 15 the Planet will be a Morning Star primarily visible in the hours after midnight.

## THE SEASONS, 1943

By definition the boundary points of the four seasons are the two equinoxes, vernal and autumnal, and the two solstices, summer and winter. These four points refer to particular positions reached by the sun during its annual journey around the zodiac.

As the earth is divided into northern and southern hemispheres by the equator, so the sky is divided into northern and southern hemispheres which envelop the northern and southern hemispheres of the earth respectively and are separated by an imaginary boundary circle called the celestial equator. The equinoxes are those two points on the celestial equator at which the sun crosses from the one celestial hemisphere into the other. The vernal equinox is that point at which the sun passes from the southern into the northern hemisphere, at which time spring begins in the northern hemisphere, while the autumnal equinoz is the equivalent point at which the sun passes out of the northern celestial hemisphere into the southern to bring the beginning of autumn. The summer solstice marks the point at which the sun is farthest north of the celestial equator, at which time it passes overhead for observers on the Tropic of Cancer, while the winter solstice is the like point which marks the limit of the sun's journey south of the celestial equator. Then the sun passes overhead for observers on the Tropic of Capricorn. The sun's attainments of the solstices mark the beginning of summer and winter respectively in the northern hemisphere.

Also, see page four for dates the seasons begin.

## AVERAGE DATES FIRST AND LAST KILLING FROSTS



| Richmond | - Mar. 31 - Nov. 2 |
| :---: | :---: |
| Raleigh | - Mar. 27 - Nov. 5 |
| Macon | - Mar. 14 - Nov. 14 |
| Del Rio | - Feb. 23 - Nov. 27 |
| Helena | - May 7 - Sept. 29 |
| Santa Fe | - Apr. 25 - Oct. 19 |
| Tucson | Mar. 11 - Nov. 9 |
| Yuma | Jan. 20 - Dec. 20 |
| Portland, Ore. | Mar. 15 - Nov. 21 |
| San Francisco | Jan. 13 - Dec. 29 |

## ECLIPSES FOR THE YEAR 1943

In the year 1943 there will be four Eclipses, two of the Sun and two of the Moon.
I. A Total Eclipse of the Sun, February 4, 1943, visible as a Partial Eclipse in the western United States. Visible as a Total Eclipse along a band about 130 miles wide that extends from a point in the Klondike along the Alaskan Peninsula, across the Pacific Ocean and the Island of Hokkaido, to a point just west of Vladivostok. The Eclipse begins in the Klondike in longitude $129^{\circ} 51^{\prime}$ west of Greenwich, latitude $47^{\circ} 01^{\prime}$ north, and ends in Siberia, in longitude $135^{\circ} 31^{\prime}$ east of Greenwich, latitude $66^{\circ} 31^{\prime}$ north. The greatest duration of the total phase is 2 minutes, 39 seconds. Visible as a Partial Eclipse in the Pacific Ocean from within the Arctic Circle on the North to the Philippines, the Caroline, Marshall, Gilbert and Hawaiian Islands on the South, in the Rocky Mountain and West Coast States, and in Eastern China, Manchukuo, Japan and eastern Siberia. In Arizona, Utah, Idaho and western Montana the Partial Eclipse will begin shortly before sunset. In Nevada, California, Oregon and Washington the Partial Eclipse will be nearly over at sunset.
II. A Partial Eclipse of the Moon, February 19-20, 1943i visible in the United States. It will be visible along the Avlantic Coast in the early morning hours of February 20th, along the Pacific Coast in the late evening hours of February 19. Magnitude of the Eclipse 0.767 (Moon's diameter $=1$ ). The beginning will be visible generally in Europe, Africa, with the exception of the eastern part, the Atlantic Ocean, North America, South America, and the eastern part of the Pacifie Ocean. The ending will be visible generally in western Europe, the extreme northwestern part of Africa, the North Atlantic Ocean and western part of the South Atlantic Ocean, North America, South America, the eastern and central part of the Pacific Ocean, and the northeastern extremity of Asia. The circumstances of the Eclipse are as follows:

| Moon enters penumbra | February 19, 10:43 P.M. (Eastern War Time) |
| :--- | ---: |
| Moon enters umbra | February 20, 12:03 A.M. |
| Middle of the eclipse | 1:38 A.M. |
| Moon leaves umbra | $3: 13$ A.M. |
| Moon leaves penumbra | 4:32 A.M. |

III. An Annular Eclipse of the Sun, August 1, 1943, invisible in the United States. Visible as an Annular Eclipse in a band about 230 miles wide, extending across the South Pacific Ocean from a point 650 miles southwest of New Zealand to a point about 2100 miles east of the Cape of Good Hope, as a Partial Eclipse in Australia, New Zealand, the Netherlands Indies, the Malay States and eastern Madagascar.
IV. A Partial Eclipse of the Moon, August 15, 1943, invisible in the United States. The beginning will be visible generally in the western part of the Pacific Ocean, Antarctica, Australia and New Zealand, the Indian Ocean, Asia, southeastern Europe, and Africa, with the exception of the northwestern part. The ending will be visible generally in Asia, except the northeastern part, Australia except the extreme eastern part, Antarctica, the Indian Ocean, Europe, Africa, the eastern extremity of South America, and the eastern and southern parts of the Atlantic Ocean.

## OCCULTATIONS OF ALDEBARAN, 1943

The Moon will occult the bright star Aldebaran (Alpha Tauri) in 1943 for observers at and near Boston as follows:

|  | Immersion | Emersion |
| :---: | :---: | :---: |
| January 16 | 10:32 р.м. | 11:58 p.M. |
| April 8 | 10:50 Р.м. | Below horizon |

## EXPLANATION OF ASTRONOMICAL TERMS USED IN THE OLD FARMER'S ALMANAC

The Sun 1 s the pivot about which eight Planets and many smaller bodies, called collectlvely the Asterolds, revolve. The principal Planets, In order of distance from the Sun, are Mercury, Venus, the Earth, Mars, Jupiter, Saturn, Uranus, Neptune and Piuto. Of these Venus, Mars, Jupiter, and Saturn are brlliantly consplcuous to the naked eje, and Mercury also is bright but found only with some difficulty. A Planet may be distingnished from the "flxed" stars by lts comparatively steady light and, if watched for a few nights, by the fact that lt does not remain fxed relatlve to apparently neighboring stars. Each Planet. except Mercury, Venus, and Pluto, ls likewise the plvot for the revolutlon of a Moon or moons. Of these only the Moon which revolves about the Earth ls visible to the naked eye. In aggregate these several bodles largely constitute the SOLAR SYSTEM.

Because each member of the solar system except the pivotal Sun moves constantly along a closed path unique to it and at lts own partlcular speed, the relatlve positions of the members of the system as seen from the Earth constantiy change. A description of the relative position of two or more of these bodies at any time is called the ASPECT of the bodies.

The most general possible descrlption of the position of a member of the solar system with respect to the Sun ls through its elongation. ELONGATION is the apparent angular distance of the member from the Sun as seen from the Earth. The maximum possible value of the elongation is $180^{\circ}$ at which time the Sun and the Moon or Planet would appear on opposite sldes of the sky. The term applled to thls partlcular aspect is OPPOSITION (8). One also distinguishes an elongation of exactly $90^{\circ}$ by the term QUADRATURE (口) whtch means that the Moon or a Planet lies a quarter turn of the sky either east or west of the Sun. Of most general appllcation is the term CONJUNCTION ( $\delta$ ), used with reference to any two heavenly bodies and referrlng to the moment of their closest apparent approach to each other. When an object lis at or near conjunction with the Sun, it is invlsible, lost ln the sun's glare.

The four principal PHASES OF THE MOON are closely related to aspects of the Moon and Sun. NEW MOON occurs when the Sun and Moon are in conjuctlon, FIRST QUARTER when the Moon is almost exactly in quadrature east, or, more preclsely, when, of the slde toward the Earth, exactly one half is illumlnated, FULL MOON when the Moon reaches opposition, and LAST QUARTER when the Moon is almost exactly in quadrature west. A more general definitlon of the Moon's phase ls the MOON'S AGE. This is reckoned ln days startlng at New Moon. The Moon's maximum age ls $291 / 2$ days, representlng the average time which elapses between successive New Moons. MOON SOUTHS denote the times when the Moon ls exactly above the south polnt of the observer's horizon.

Of the Moon and the elght Planets, Mercury and Venus alone never reach quadrature or opposition. Because their orbits about the Sun are smaller than the Earth's, they appear to oscillate from one side of the Sun to the other and back, attaining maxlmum elongations which average $47^{\circ}$ for Venus and $23^{\circ}$ for Mercury. Since Mercury 1 s always therefore on the average less than $23^{\circ}$ from the Sun, it is diffcult to see and is most easily visible only at or near the times of its GREATEST ELONGATIONS as glven under Aspects in the Calendar pages. Between the times of greatest elongatlon, Mercury and Venus are in conjunction wlth the Sun, once wlth the Planet between the Earth and Sun and agaln, half a revolution iater, with the Sun between the Planet and the Earth. The former conjunctlon is denoted as INFERIOR, the latter as SUPERIOR. Conjunctions of the other Planets are always superior.

The sequence of major aspects for Mercury and Venus is lnferior conjunction, greatest elongation west, superior conjunction, greatest elongatlon east and back to inferior conjunction again. For the other planets the sequence is conjunction, quadrature west, opposition, quadrature east, and back to conjunction again.

Just before a Planet comes to opposition, its apparent movement from right to left across the background of stars stops. For a time the Planet moves from left to right before once again it becomes stationary and thereafter resumes lts normal progress toward the left. The so-called STATIONARY POINTS define the llmits of thls retrograde motion. Opposition occurs on a day about mldway between the dates on which the Planet is stationary.

Since by the Law of Gravitation the closed orbit of one body about a second must be an ellipse inside which the controlling member of the pair occupies an off-center position, the distance separating the one from the other will vary between a minimum and a maximum value during one complete revolution. When a Planet in revolving about the Sun reaches the point of its orbit that lies closest to the Sun, it is said to be in PERIHELION, while at its furthest point, it is sald to be in APHELION. Synonymous terms applied to the Moon's revolution about the Earth are PERIGEE and APOGEE.

Because the orbits of the Moon and the Planets lie nearly in one plane, that of the Earth's orbit about the Sun, these objects will never be found far from the path which the Sun apparently traces out in the sky due to the Earth's annual revolution about it. This apparent annual path of the Sun is called the ECLIPTIC. It is a circle that divides the sky into two hemispheres. When a Planet or the Moon in its motion crosses the ecliptic, it is said to be at a NODE. If its motion carries it from north of the ecliptic to south of it, the node is called the DESCENDING NODE ( 8 ) ; a crossing in the opposite direction occurs at the ASCENDING NODE ( $\delta$ ).

More accurately the Moon and Planets never wander outside a belt of sky that has a width of sixteen degrees and the center line of which is the ecliptic. This belt is called THE ZODIAC. The ancients divided the Zodiac into twelve equal divisions called signs and gave to each division the name of the constellation found within it. One speaks then of the SIGNS OF THE ZODIAC, which are in order: Aries, Taurus, Gemini, Cancer, Leo, Virgo, Libra, Scopio, Sagittarius, Capricornus, Aquarius, Pisces. The MOON'S PLACE as tabulated in the Almanac refers to the sign of the Zodiac in which the Moon lies.

When conjunction or opposition of the Sun and Moon occurs with the Moon at or near a node, there will be an ECLIPSE. At conjunction the eclipse will be a SOLAR ECLIPSE, at opposition a LUNAR ECLIPSE, since the Moon will enter the shadow of the Earth. This shadow in the region through which the Moon passes during an eclipse consists of a central portion of deep shadow, the UMBRA, surrounded by a concentric area of partial shadow, the PENUMBRA. An eclipse may be PARTIAL or TOTAL according as the body is partly or wholly obscured. A lunar eclipse is partial or total only in respect to that degree to which the Moon enters the umbra of the earth's shadow. If the Moon passes only through the penumbra, the phenomenon is called an $A P P U L S E$. An eclipse of the Sun may be partial or total or it may be an $A N N U L A R E C L I P S E$, in which case the Moon, though it becomes centered on the disk of the Sun, is so far from the Earth that its apparent diameter is less than the Sun's, so that a ring, or annulus, of sunlight shows around the Moon. OCCÚLTATIONS are eclipses of stars by the Moon. Most conspicuous of these to the naked eye are the occultations of the bright star Aldebaran, the times for which are tabulated in the Almanac, page 33 .

Of the terms used in the Almanac under CHRONOLOGICAL CYCLES, Epact and Roman Indiction are used in reckoning ecclesiastical calendars. EPACT is the age at the year's beginning of a fictitious "calendar Moon" used in determining the date of Easter, which is defined as the first Sunday after the first full "calendar Moon" following the Sun's passage of the vernal equinox. ROMAN INDICTION is an arbitrary cycle of 15 years, of which the year " 1 ", of the first cycle was the year 313 A.D. The Dominical Letter, Golden Number, and Year of the Solar Cycle find use in reckoning civil calendars. The letters $A, B, C, D, E, F, G$ being applied to the first seven days of any common year, the DOMINICAL LETTER for that year is the letter thus pertaining to the first Sunday. There are two Dominical letters for Leap Years, the one normally arrived at in the sequence from preceding years which applies until the first Sunday in March, and the next letter in the sequence for the first Sunday in March and successive Sundays remaining in the year. The GOLDEN NUMBER is the number of the year in the Metonic Cycle, a cycle of 19 years which is so close to 235 lunar months that in years which have the same Golden Number the Moon's phases recur on the same dates. The SOLAR CYCLE is a period of 28 years, after which the days of the week, in the anclent Julian calendar, fell on the same days of the year. The JULIAN PERIOD is a period which harmonizes chronological cycles. Its length is 7980 .Julian years, being the least common multiple of the solar cycle, the Metonic cycle, and the Roman indiction. The first jear of the Julian Irrlod was 4713 EC . Thich was the year " 1 " in each of the three component cycles. The designation of a year in the Julian Period is intelligible to any chronologist, whatever may be his religion.

## TIDE CORRECTIONS

## For full explanation of use, see page 5.

To obtain the time and height of high water at any place, apply the differences in accordance with the sign given to the daily predictions for Boston (Commonwealth Piers). Where a value in the "height difference" column is preceded by a *, the height at Boston should be multiplied by this ratio.

| Time Difference h.m. | Height <br> Difference Feet | Time <br> Difference h.m. | Height <br> Difference Feet |
| :---: | :---: | :---: | :---: |
| MAINE |  | PENNSYLVANIA |  |
| Augusta . . . . +350 | *0.4 | Philadelphia . . . +229 | *0.5 |
| Bangor . . . - -0 05 | +3.6 |  |  |
| Bar Harbor . . . -0 33 <br> Boothbay Harbor. -0 20 | +1.1 | Rehoboth . . . . -3 37 | *0.4 |
| Eastport . . . -0 28 | *1.9 | MARYLAND |  |
| Old Orchard . . . -0 10 | -0.7 | Baltimore . . . -425 | *0.1 |
| Portland . . . - -010 | $-0.6$ | Ocean City * . - 357 | *0.4 |
| Stonington . . . . -0 30 | +0.2 | DISTRICT OF COLUMBIA |  |
| NEW HAMPSHIRE <br> Hampton . . . . +015 | -1.2 | Washington . . . -308 | *0.3 |
| MASSACHUSETTS | 1.2 | VIRGINIA <br> Norfolk . . . . . -1 54 | *0.3 |
| Fall River . . . -3 16 | *0.5 | Virginia Beach . . -3 14 | *0.3 |
| Falmouth . . . - 040 | *1. 1 |  |  |
| Hyannisport . . . +045 | *0.3 | NORTH CAROLINA 59 |  |
|  | -0.2 | Beaufort <br> Carolina Beach . . -2 | $* 0.3$ $* 0.4$ |
| Marblehead . . - - 005 <br> Marion . . <br> 16 | *0.4 | Carolina Beach . . -3 30 | *0.4 |
| Monument Beach . -3 06 | *0.4 | SOUTH CAROLINA |  |
| Nantasket . . . +0 10 | +0.1 | Myrtle Beach. . . -3 45 | *0.5 |
| Nantucket . . . . +050 | *0.3 | Charleston . . . . -3 15 | *0.5 |
| New Bedford . . . -3 21 | *0.4 | GEORGIA |  |
| Oak Bluffs . . . . +005 | *0.2 | St. Simon's Island -2 51 | *0.7 |
| Onset . . . . . -306 | *0.5 | Savannah . . . -2 40 | *0.8 |
| Plymouth . . . . 000 | +0.1 | Tybee Beach . . . -3 26 | *0.8 |
| Provincetown . - +0 15 | $=0.3$ |  |  |
| Scituate . . . . -0 05 Wellfleet | +0.5 | FLORIDA Daytona . . -320 | *0.4 |
| Woods Hole . . . -3 01 | *0.2 | Fort Lauderdale . -2 15 | *0.3 |
|  |  | Jacksonville . . . -0 40 | *0.1 |
| RHODE ISLAND -321 |  | Miami . . . . -300 | *0.3 |
|  | *0.3 | Palm Beach . . - 320 | *0.3 |
| Narragansett Pier -3 31 | *0.4 | Port Everglades . -2 15 | *0.3 |
| Newport • . . -3 31 | *0.4 | St. Augustine . . -2 20 | *0.5 |
| Providence . . -3 11 | *0.5 | St. Petersburg . . +3 58 | *0.2 |
| Watch Hill . . . -2 06 | *0.3 | WASHINGTON |  |
| CONNECTICUT |  | Ilwaco . . . . +144 | $-3.5$ |
| Long Island Sound -0 02 | *0.7 | Port Townsend . . +504 | *0.5 |
| New London . . . -1 47 | *0.3 | Seattle . . . . +537 | -2.0 |
| NEW YORK |  | OREGON |  |
| Coney Island . - 300 | *0.5 | Astoria . . . . +137 | $-3.3$ |
| Long Beach . - -357 | *0.5 | Cape Arago ${ }^{\text {C }}$. +119 | $-4.8$ |
| Long Island Sound to 08 | *0.7 | Yaquina Head . . +112 | -3.7 |
| New York City . -2 50 | ${ }^{*} 0.5$ | CALIFORNIA |  |
| Ocean Beach . . . -3 57 | *0.4 | Catalina Island . . -1 33 | -5.9 |
| Southampton • - - 22 | *0.3 | Crescent City . ${ }^{\text {a }}$ +0 56 | -5.0 |
| NEW JERSEY |  | Eureka . . . +120 | -5.0 |
| Atlantic City • - ${ }^{\text {- }} 57$ | *0.5 | Long Beach . . . -1 37 | *0.4 |
| Bayside . . . - Cape May - | *0.6 | Point Mendocino . +0 24 | *0.4 |
| Ocean City : . - -3 17 | *0.4 | San Diego. . . -1 35 | * 5.9 |
| Seabright - -344 | *0.5 |  | -6.0 |
| Seaside Park * * -344 | . 5 | Santa Cruz . . to 08 | *0.4 |

## TECHNICALLY SPEAKING

Sunrise and sunset in the OFA are for the visible rising and setting of the sun's upper limb across the unobstructed horizon by an observer whose eyes are fifteen feet above ground level.

Twilight begins or ends when stars of the sixth magnitude disappear or appear at the zenith-or the sun is appr. 18 degrees below the horizon.

## A NEW WORLD CALENDAR-1945

The World Calendar of 12 months and equal quarters is a widely supported plan for improving and stabilizing the civil calendar. It makes our calendar perpetual-every year the same.

Month-dates always come on the same week-days, instead of shifting from year to year as now. This is accomplished by making the 365 th day of the year an extra day at the end of the 52nd week of the year, calling it an extra Saturday, Lear-End Day, a World Holiday. Similarly, Leap-Year Day, every four years, is placed at the end of June, in the middle of the year, and is also regarded as an extra Saturday, and a World Holiday.

The World Calendar also brings logic and rhythm into the lengths of the months, and by so doing makes the quarters of the year equal. The first month of each quarter would be 31 days long, the next two 30 days each, so that each quarter is 91 days long, or exactly thirteen weeks. These equal quarters of 91 days correspond more closely to the seasons than is now the case. In the present calendar, with month lengths varying without rhyme or reason, the quarters are 90,91 or 92 days long.

Louis J. Taber, past Master of the National Grange, wrote: "I would like to see one (a new calendar) which would render the making of comparisons simple and stable from month to month and year to year, which would fix the important holidays, such as, say, Easter, and would balance the year so that the quarters were at least identical, beginning and ending on the same day. If this were accomplished, it would be all that anyone could desire or expect of calendar reform." The World Calendar meets these requirements, of course. The question of a fixed Easter, however, lies outside the realm of the civil calendar. It is a religious question under church authorities.

Successful farming-whether it is cattle-raising, truck gardening, or tobacco-growing; whether it has to do with dairy lierds, fruits, or staple crops-calls for exact measurements of time, and for statistics that are comparable year by year, month by month, week by week. The World Calendar, in which all the different time units are correlated at the end of each quarter, provides exactness and comparability.

Improved scientific methods are making the farmer, the stockman and the horticulturist as eager for a balanced calendar as any businessman. No longer is the progressive farmer satisfied to plant and harvest by the phases of the moon. Rural problems are now being solved more efficiently. The tiller of the soil goes in for a regular crop-rotation plan of three or four years' duration, dependent upon location, soll, climatic conditions, type of crop, market conditions, etc. The stockman, too, must keep accurate record of breeding time, of plant maturity, and similar matters.

He knows better now than formerly whether he is making or losing money. Modern methods are bringing him a sounder Enowledge of bookkeeping, and machine implements are facilitating his field labors. The proper planning and calculating of crops call for a practical realization of "times and seasons." They also save in labor and outlay. Just as the farmer is everywhere abandoning the hit-or-miss methods, so is he demanding the scrapping of a haphazard calendar. Improved farm operation calls for an improved calendar.

The new calendar can go into effect in 1945 if preparations are made now. Fourteen nations (Afglanistan, Brazil, Chile, China, Estonia, Greece, Hungary, Mexico, Norway, Panama, Peru, Spain, Turkey and Uruguay) have already signified their readiness to adopt the new calendar, and the prospects are excellent for the United States to take the leadership in bringing about the important calendar change.

The World Calendar Association, with offices at 630 Fifth Averiue, New Liorlt will be slad to supply further detaifs to interested readers of the Old Farmer's Almanac.

## 1943 GAME LAWS

Open seasons include both dates. "Rabbit" lacludes hare: "quail" Includes "partridge" in South; "grouse" includes Canada grouse, sharptalled, ruffed (known as partridge in North and pheasant in South) and all other members of family, except pradrie chickens, ptarmigan and sage hens. States marked (*) did not have complete laws avallable at press time. VERIFY these tables - we can not guarantee them.
$\sigma^{\circ}$ males only. *Season not announced. †Local exceptions.




## MIGRATORY GAME BIRDS - UNITED STATES

## DUCK, GOOSE, BRANT AND COOT

Northern Zone, Sept. 26-Dec. 4 - Maine, Michigan, Minnesota, Ohio, Montana, New Hampshire, North Dakota, South Dakota, Wisconsin and Wyoraing.
(Scoters or sea coots may also be taken in open coastal waters of Maine and New Hampshire from Sept. 15 to Sept. 30, and in those of New York, Connecticut, Massachusetts and Rhode Island, Sept. 15-Oct. 15.)
Intermediate Zone, Oct. 15-Dec. 23- California, Colorado, Connectlcut, Delaware, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Massachusetts, Missourl, Nebraska, New Jersey, Nevada, New York, Oklahoma, Oregon, Pennsylvanla, Rliode Island, Utah, Vermont, Washington and West Virginia.
Southern Zone, Nov, 2-Jan. 10 - Alabama, Arkansas, Arizona, New Mexleo, Florida, Georgla, Louislana, Maryland, Mississlppi, North and South Carolina, Tennessee, Texas and Virginla.

Alaska - Two zones: Sept. 1-Nov. 9 and Sept. 21-Nov. 29.
Puerto Rico - Dee. 15-Feb. 12.

## WOODCOCK

Northern New York, Minnesota, Vermont, and Wisconsln - Oct. 1-Oct. 15.
Southern New York (except Long Island), Connecticut and Indiana - Oct. 15-Oct. 29. Long Island of New York, New Jersey and Rhode Island - Nov. 1-Nov. 15.
Malne, New Hampshire and Ohio -Oct. 10-Oct. 24; Massachusetts - Oct. 20-Nov. 3; Arkansas and Oklahoma - Dec. 1-Dec. 15; Loulslana and Mississlppi - Dec. 15-Dec. 29; Delaware and Maryland - Nov. 15-Nov. 29.
Michtgan (Upper Peninsuia) - Oct. 1-Oct. 15; remainder of state Oct. 15-Oct. 29.
Minnesota - Oct. 3-Oct. 18.
Pennsylvanla - Oct. 24-Nov. 7; Mlssouri - Nov. 10-Nov. 24.
Virginia - Nov. 20-Dec. 4 ; West Virginia - Oct. 17-Oct. 31.

## RAIL AND GALLINULE

Sept. 1-Nov. 30, exoept as follows: Aiabama - Nov. 20-Jan. 31; Loulsiana - Sept. 15 Dec. 15; Maine - Sept. 26-Dec. 4; Massachusetts and New York - Oct. 16-Dec. 14; Minnesota - Sept. 16-Nov. 30; Wisconsin - Sept. 26-Dec. 4 ; Puerto Rico - Dec.15Feb. 12.
No open season in Calliornia, District of Columbla, Hawali, Idaho, Montana, Nevada, Oregon, Washington, Tennessee.

## MOURNING DOVE

Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North and South Carolina - Dec. 1-Dec. 30.
Arizona, California, Kansas, Nevada, New Mexlco and Oklahoma - Sept. 1-Oct. 12. Delaware, Kentucky, Maryland, and Virginia - Sept. 16-Oct. 15.
Idaho - Sept. 1-Sept. 10; Illinols and Missouri - Sept. 1-Sept. 30; Minnesota Sept. 16-Sept. 30; Oregon - Sept. 1-Sept. 15; Tennessee - Oct. 1-Oct. 30.
Texas, in Yoakum, Terry, Lynn, Garza, Kent, Stonewail, Haskell, Throckmorton Young, Palo Pinto, Van Zandt, Rains, Red Rlver counties and in Parker, Kaufman, Johnson, Hopkins, Franklin and Ellis counties and all counties north thereof - Sept. 1Oct. 12 ; remainder of state, Sept. 16 -Oct. 27.

## WHITE-WINGED DOVE

Arlzona - Sept. 1-Sept. 15.
Texas - Sept. 16-Sept. 25.

## DAND-TAILED PIGEON

Arlzona, New Mexico and Washington - Sept. 16Oct. 15; Callfornia - Dec. 1-Dec. 15; Oregon Sept. 1-Sept. 30.

BAG LIMITS. Ducks - 10 ln aggregate of all klnds including in such limit not more than 1 wood duck, or more than 3 singly or in the aggregate of redheads and bufteheads. Possesslon limit 20 in the aggregate of all kinds, but not more than 1 wood duck, nor more than 6 of either or both of redheads or buffleheads. Geese and brant, 2 in aggregate, but in addition 4 blue geese may be taken in a day. If blue geese only are taken, the dally bag llmit is 6 . Possession limit on geese, other than blue geese, 4 a day but in addltlon 2 blue geese are allowed, and if only blue geese are taken, the possession imit is 6 . In Alexander County, Ili., the season on geese is from Oct. 15 to Dec. 13, and only between sunrise and 12 o'clock noon. Coot, 25 possesslon 25 . Rail and gailinule $15 \ln$ aggregate; 15 possession. Sora 15; possession 15. Woodcock 4; 8 in possession. Mounting and white-winged covers 10 in aggregate; 10 possession. Band-tailed plgeons 10 ; possession 10 .

RESTRICTIONS. Closed season on jacksnipe, Ross's geese and swans; on snow geese in states bordering the Atlantic Coast, in 1daho, and ln Beaverhead, Gallatin and Madison Counties in Montana. Live decoys, baiting, and use of livestock as "blinds" prohiblted. Migratory waterfowl may be taken with bow and arrow, or with shotgun not farger than 10 -gauge, and not capable of holding more than 3 shells. All waterfowl, ooot, ralls, gallinule woodcock, mourning and white-wlnged doves and band-tailed pigeons may be taken from sunrlse to sunset. Federal duck stamp required of all waterfowl hunters over 16 years.

[^0]
## ABOUT THESE VITAMINS . . .

## By Bureau of Home Economics

## United States Department of Agriculture.

Nutrition experts advise that people get their vitamins from food rather than from indiscriminate use of synthetic preparations. And in general it may be said that although milk comes the closest to being a complete food, no single food is adequate to provide all the proper essentials. For this reason it is wise to eat a variety of foods and select same to ensure a balanced diet . . . as well as a palatable one.

Try to have in your meals every day . . .
MILK
For a growing child, $3 / 4$ to 1 quart.
For an expectant or nursing mother, 1 quart.
For other family members, 1 pint or more.
TOMATOES, ORANGES, GRAPEFRUIT, RAW CABBAGE, OR SALAD GREENS

1 or more servings.
GREEN OR YELLOW VEGETABLES
1 or more servings.
OTHER VEGETABLES OR FRUITS
2 or more servings. (Among these include your potatoes and apples.)
LEAN MEAT, POULTRY, FISH, OR SOMETIMES DRIED BEANS OR PEAS

1 or more servings.

## EGGS

1 a day or at least 3 or 4 a week cooked as you like or in made dishes. CEREALS AND BREAD

2 or more servings of whole-grain or "enriched" products.
BUTTER AND OTHER FATS
Some of the vitamins and minerals obtainable for your body through vegetables are known as Vitamin A, Thiamin, Ascorbic acid, Riboflavin, Calcium, and Iron. These vitamins fill various different needs. For example, Vitamin a contributes to muscular strength, parts of the skin, and normal vision. It helps tooth structures, as well. Snap beans and Hubbard squash are excellent solirces of this vitamin and it is to be found in beet greens, carrots, chard, collards, kale, green lettuce, spinach, red tomatoes, and turnip greens.

Thiamin or Vitamin B, helps the appetite, weight, nervous system, temperature, and heart rate. It gives us heat and energy. Lima beans are the best source of this vitamin but snap beans, cabbage, carrots, collards, kale, green lettuce, parsnips, Hubbard squash, red tomatoes, and turnip greens are considered good sources.

Ascorbic Acid or Vitamin $C$ helps the teeth in particular and helps prevent hemorrhages, swollen joints, porous bones, and bleeding gums . . . and scurvy. Beet greens, cabbage, chard, collards, kale, spinach, red tomatoes, turnip greens and white turnips are excellent sources. Snap beans and parsnips are good.

Rlboflavin or Vitamin G plays a part in our bodily growth, general well being, and condition of our hair. Kale and turnip greens are the best sources but lima beans, beet greens, cabbage, carrots, collards, green lettuce, and spinach are good. There is some question in this as to the values of beet greens or carrots for this vitamin.

Calcium is the outstanding element which gives shape or permanence to the body framework, endows our bones and teeth with strength-also contributes to the normal properties and behavior of the blood, muscles and nerves-beating of the heart-clotting power of the blood. Linia beans, collards, kale, and turnip greens are excellent sources while snap beans, cabbage, green lettuce, parsnips and white turnips are good.

Iron transports oxygen to the innermost cells of our body. It keeps our red blood cells in balance. This vitamin is found in Lima beans, beet greens, chard, kale, spinach, collards and turnip greens and to some extent in snap beans, and green lettuce.

The following table summarizes the vegetables as sources of vitamins:

|  | A | Thiamine | Ascorbic Acid | Riboflavin | $\underset{\mathrm{cin}}{\mathrm{Nia}}$ | Ca | Fe |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Beans, lima, green | + + | + | + +* | + | - | + | + + |
| Beans, snap...... | $\pm$ | - |  |  |  | $\pm$ |  |
| Carrots........... | ++++ | - | -* | - | + | + | + |
| Chard. |  | I | +** | $\pm$ | - |  | ++ |
| Kale... | $+$ | + | + | $+$ | - | +++ |  |
| Lettuce. |  | - | + |  |  |  |  |
| Parsnips |  | + | +* | ? | - | + | + |
| Spinach . . . . . . . . | +t++ | + | + +* | + | - | 0 | + + |
| Squash, Hubbard. |  | - |  | - | - |  |  |
| Turnip greens.... | $t+++$ | + | ++t+* | +t | ? | + + + | + + |
| Turnips... |  | - |  | - |  | + |  |
| Beet greens. | ++++ | - | -* | - | - | - | + + |

*Since these are usually cooked an allowance ( $50 \%$ ) has been made for losses in cooking.
++++ One serving fulfills the daily requirement
+++ Excellent
++ Good

+ Fair
- Poor
0 None
? Unknown

Naturally, there are other vitamin sources than vegetables. For example, orange juice is excellent for ascorbic acid, milk is excellent for calcium, apricot pulp, egg yolks, ground calves liver and peas for iron. These other sources can be obtained by consultation with authorities on the subject.

In conclusion, it is well to bear in mind that the cooking and serving of foods also has a definite bearing on their vitamin content. The following suggestions with regard to this may be helpful.

## First Aid for Vitamins

The four first-aid rules:

1. Don't crush or bruise.
2. Don't soak.
3. Keep cold until ready to cook or eat.
4. Use quickly when prepared.

## PLANTING TABLE

There is not mueh to be gained by "rushing the season" with your Spring planting. Hold off planting your tender vegetables and you'll find they'll come just as quickly to maturity-as those planted earlier and retarded by the cold. However, it is well to get your hardier seeds in without delay . . . and spread your plantings through the season as well as you can. Early and late varieties planted at the same time of course give a partial fulfilment of the desired result. There follows a ehart you may use as a guide-by correcting it for your loeale. (Courtesy U. S. Dept. Agriculture)

| Early Spr |  | Late Spring or Summer |  | Late Summer or Fall -6.8 wks. before first freeze |
| :---: | :---: | :---: | :---: | :---: |
| 4-6 wks. before frost free date | 2-4 wks. before frost free date | Frost free date | 2-6 wks. after frost free date |  |
| Cabbage plants Lettuce Onions Peas Potatoes Spinaeh Turnips | Beets <br> Carrots <br> Swiss ehard <br> Lettuee <br> Mustard <br> Peas <br> Parsnips <br> Radishes | Beans <br> Beets <br> Sweet corn <br> Squash <br> Tomato <br> plants | Beans, snap <br> Beets <br> Sweet corn | Beets <br> Collards <br> Kale <br> Mustard <br> Spinach <br> Turnips |

## THE MOVES OF THE CENTER OF OUR POPULATION

Like the rest of us, our eountry's center of population has not lived in any one house long enough to get used to it. No sooner does this mythieal eenter get settled down with all her things put away than-upsedaisy-she's on the move again. As established by the Census Bureau in sueeessive periods here is how this center has moved since the first census- 1790 -when that center was at a point 23 miles East of Baltimore.

1800 -moved 40.6 miles west, and 0.5 miles south to a point 18 miles West of Baltimore.
1810-moved 36.9 miles west to a place in Virginia, 40 miles nw by $w$ of Washington.
1820 -moved 50.5 miles west to Moorfield, Va. (now W. Va.)
1830 -moved 19.0 miles west-sw of Moorfield.
1840 -moved 55.0 miles west to Clarksburg, W. Va.
1850 -moved 54.8 miles to 23 miles se of Parkersburg, W. Va.
1860 -moved 80.6 miles to 20 miles s by e of Chilicothe, Ohio.
1870 -moved 44.1 miles to 48 miles e by n of Cineinnati, Ohio.
1880 -moved 43 miles to 20 miles e of Columbus, Ohio.
1890 -moved 58.1 miles to 8 mi . west by s of Cineinnati.
1900 -moved 26.0 miles to 6 miles sw of Columbus.
1910-moved 38.9 miles west to Bloomington, Indiana.
1920 -moved 9.8 miles to 1.9 miles e of Whitehall, Ind.
1930-moved 22.3 miles west to 2.9 miles ne of Linton, Ind.
1940 -moved 12 miles west to 2 mi . se of Carlisle, Indiana.
Total miles moved in 150 years......... 591.6

## POETRY, ANECDOTES AND PLEASANTRIES

## PUZZLE NO. 1

Dad went up to town this afternoon with $\$ 5$ in his pocket and came back witl $\$ 15$. He had bought a new hat at the hatshop and some daffodils in the market place. He had also had a tooth filled.

Dad gets paid on Friday and the banks are open Tuesday, Thursday and Saturday.

The dentist comes every day but Saturday.

Thursday, the shops close at noon and there is no market on Friday.

What day of the week is it? Answer: See page 94.

From Brush Up Your Wits, by Hubert Phillips

## PUZZLE NO. 2

Two schoolboys were playing on the toolshed roof. Something gave way, and they were precipitated, through the roof, onto the floor below.

When they picked themselves up, the face of one was covered with grime. The other's face was quite clean. Yet it was the boy with the clean face who at once went off and washed.

How is this to be explained?
Answer: See page 94.

> From Brush Up Your Wits, by Hubert Phillips

## PATRIOTIC PARASITE <br> (Somewhere on Cape Cod)

I'm just a lowly, crawling tick, Replete, distended, plethoric; Vicarious, all-out for "V,"
Blood Donor is the role for me.
At an autumn banquet, given in honor of an emiuent visiting scientist, the pièce de résistance was a magnificent turkey with sage stuffing and the usual standard garnishings. After the coffee, the toastmaster arose, rapped for attention and said: "Gentlemen, you are all replete with a most excellent meal and 1 know you particularly appreciated the delicious turkey stuffed with sage; $I$ am now going to offer you the unusual opportunity of listening to a sage stuffed with turkey."

Logic has been defined as the tefene of the fezensaly forms of masculine thought.

Perhaps the human race will endure until, completely aware, it discovers that it doesn't exist.

Certain people and the clock simply do not speak the same language.

## TO A HUMBUG <br> The Trout Speaking

"I compliment you, feathered gay deceit,
Upheld by filmy law of surface tension,
A paragon of beauty and invention
Yet counterfeit and nature-fake and cheat.
How can such downy stuff conceal a barb?
It surely cannot be that death should lurk
In guise of the Crcator's handiwork;
No vice I'm sure destroys in gayer garb.
But judge me not of art and craft the fool;
In wantonness I'll give the thing a whirl
And, rising short, will cause a mighty swirl
To entertain the others in the pool:-
Fate, like a falcon, strikes from out the blue;
Foul hooked, a duped sophisticate, adieu!" The Fishing Gazette of London

## JUNGLE JINGLE

A tiger crouching for a spring Has true protective coloring, Half hidden in the dense morass His stripes resemble jungle grass:-
You see what 1 am driving at; The tiger is a copy cat.

$$
F L I T, F L I T
$$

A creeping, crawling, clinging crowd,
Components of a flying cloud,
That buzz and stab like anything,
Thou art my theme, of thee $I$ sing.
The midge, a microscopic fly,
In size almost an alibi,
Is quite a firebug, just the same, To set one's cuticle affame.
The State financed Mosquit' Con-trol,-
They have it still, upon my soul, And cause us all to smart and itch,
Contesting same to the last ditch. The black zy of the wertheris woods,
For toxic poison, has the goods:-
Now insect pests are on the wing, O Death, $O$ Death; where is thy sting!

HAVENS DON'T PROTECT THE WORKING GIRL
A coastwise fair maiden once thought
Herself bound by a true-lover's knot,
But there's many a slip
Twixt a Gob and his ship;-
A sailor's knot isn't so taut.

## PARADISAICAL IDEAL

Scribbled on a Score Card by the Caddy
The golf fiend does not fear to die,
In trust he mounts the Golden Stairway;
For him Green Pastures signify Potential links with sheepcropped fairway.

## EFFICIENCY EXPERT

Your lips are just too sweet for words,
Let that be my excuse
And reason, why, so often I
Suggest their better use.

## THE MAGIC TOUCH

It's the skill we apply, As I stoutly affirm, Brings the rise to the fly Or the stoop to the worm.

Fishing Gazette, of London

## QWERTYUIOP <br> To my Typewriter

All authors will admit the kick, From up-flung alphabetic hoof, When keys with thoughts together click
In forming future galley proof.
A.W.B. in Saturday Review of Literature

PAUL REVERE, IN REVERSE Suppose the shade of Paul Revere,
In case it ever happened here,
Contrived to hang his signal lights
From old North Church on blackout nights;
One, if by land, and two, if by sea,
Worse if, by air, he should make it three;-
Air Wardens then would shout at him,
"Paul, for God's sake, douse that glim!"

From Contributors' Club, Atlantic Monthly

A MEASURE FOR MEASURE Daschunds thrill me not a bit; And that's the long and short of it.

## HUMAN RELATIONS

If I bore him as he bores me, Which I suspect the case to be, He lias my heartfelt sympathy. Why not upon this point agree, Shun each the other's company, And make two lives more blithe and free.

## the groundhog joins up Feb. 2nd, 1942

The woodchuck stirs within his lair,
Yawns, rubs his eyes and smooths his hair:-
"This waking up is pretty sad
To gaze upon 'a world gone mad';
The good earth is a snug retrcat, Secure from all the battle's heat; Efficient blackout for a raid
Is, prearranged and ready made.
It's not my shadow, now, I dread
But that of war planes overhead.
For ages famed as weathervise,
My habit is to scan the skies
And hence, as anyone can see, Air Warden is the job for me.
Of strife I am not over fond
Yet duty calls, I must respond:I'll quit my bomb-proof shelter here;
This day I mean to volunteer!' The Falmouth Enterprise

## TOUR DE FORCE

Lines to a Horse Riding in a Motor Truck
Was life in harness but a passing phase?
In mystified bewilderment he rides,
Nor can he reconcile the part he plays
With changed perspective which the mode provides.
He has his feet no longer on the ground;
His doom appears foreshadowed in his stance,
In looking backward with a wistful glance
As well aware of being outward bound.
The right to ride was never better earned;
A heritage of drudgery and toil
Has met relief with gasolinc and oil
And here we see the tables neatly turned:-
By dint of third dimensional resource
Now Progress puts the cart bencath the horse.
Saturday Review of Literature

## PIGEON ENGLISH

A bloated pigeon, trailing lustful wing,
Around his flame describes a wedding ring,
Interrogating her with billing coo;
"Whose lovey, dovey, lady bird iz 'ou?"

Her Answer
"With necking feathers ruffed, you look swell,
Though I admit you're struttlng very well,
In you I do not recognize my fate;
What makes you think that I would be your mate?
By older, wiser birds I have been told
Your memory has neatly pigeonholed
A dozen dove tailed previous affairs
With flapper squabs who tumbled for your airs.
I know you for a gay Lothario
With reputation black as any crow;
You'll plan a nest and later leave me flat;
No thanks, I'll just lay off of all of that!"
MARITIME TRAFFIC
REGULATION
Positively no $U$ turns allowed

## HANDICAP RACE

This story, of unknown origin, was related by a certain clergyman as a sort of parable. A doctor, practising in China, received an urgent call to visit a patient who was suffering from a disease in which the doctor was a specialist. The sick man lived in an outlying district, fifty miles distant, which was not accessible by motor or by horse drawn vehicle and the trip had to be made by rickshaw. The doctor asked his rickshaw boy to provide several relays since the distance seemed too great for any one man. The boy's pride was much hurt by the suggestion and he asserted that no assistance was required and that he was equal to traversing the entire fifty miles alone. His claim proved to be correct for lie made the trip in good time and without noticeable distress.

On reaching their destination a young resident doctor who was a trained athlete, with a reputation for speed and endurance, was deeply impressed by the performance and wanted to arrange a race with the rickshaw boy. Fixally a three mille eourse was decided upon and the young dloctor beat the boy quite handily.

Afterwards in discussing the contest the boy complained that the trial had been unfair and that he had not been given a chance because he had no rickshaw in tow. Accordingly a second race was agreed upon and, at the appointed time, the boy turned up with not only his rickshaw but with a passenger as well. This time he beat the athlete doctor quite as badly as he himself had been beaten before.

## $\overline{\text { VIOLATORS }}$

A Headache for the Air Warden A total blackout in July,
That not a telltale spark may show,
Demands some clever scheme whereby
We can control the fireflies' glow. FROM A RAW RECRUIT
Your image haunts me, here interned,
You fascinating little vamp;-
For me, so far as you're concerned,
This is a concentration camp.
FROM CAMP EDW ARDS
Through Non-Military Channels
I drean of you still, on old Cape Cod,
While asleep on my army bed;You're kinder to me in the Land of Nod
Than in life, where you shake your head.
Creation is the ideal recreation, as perhaps the Supreme Being was the first to discover.

## PLANNED ECONOMY

It seems, when I attempt to solve Curtailed expense for leaner years,
Suggested savings all involve
My Better Half's blood, sweat and tears.
"Don't you think that sewing machine is running too fast?" cried the husband. "Look out! You'll sew the wrong seam! Mind that corncr, now! Steady! Slow down; mind your finger."
"What's the matter with you, John?" said his wife, alarmed. "I've been running this machine for years!"
"Well, dear, I was only trying to help you, just, as you help me running the car."
OFFICE CHRISTMAS PARTY
The Boss to the Lady Bookkeeper
"Beneath where festal mistletoe is spread,
Should I succumb to fatal fas-cination,-
Then woula you chasse the ship to overhead
Or, as deferred, to future operation?"

## WORD CHARADES

## For answers see page 94

## 1

Just as a rattle snake is foiled, My First is powerless, uncoiled. My Last has since been through the mill
Which, as a log, slid o'er the spill.
A jumping off place-fitting The meaning of My Whole betrays.
My First, a cry, is heard upon the links
But heralds not a putt the player sinks
To win the hole, the money, match and drinks.
The current, near the bank, runs deep and fast,
At length that cautious feeding trout is grassed
Because of the perfection of my Last.
Who dares essay My Whole is venturesome,
Which is a prophecy of things to come;
We only wish the outlook were less glum.

3
Considered as a unit in a scale,
My First is often bordered by a rail.
These word charades in verbal tricks abound;
Look close, in case, My Second can be found.
My Whole may serve to elevate mankind,
At almost any angle it's inclined.

## 4

My First, (how to treat it occasions some doubt)
Whatever the usage, can never mean, out.
My Last is employed if we speak, sing or shout.
My Whole is, as manifest, shipped all about.
My First adds ${ }^{5}$ local color at Yule-tide.
My Last is ever followed by its guide.
Although the job be workmanlike and thorough,
My Whole will always turn a sterile furrow.
My First is perfect in My Second's role,
No animal could make a better pet,
So mischievous, affectionate and droll;
One scarcely could select a better bet
Provided one is not a squeamish soul,

Offended by a tiny rivulet.
Before My First is taken for a stroll,
A leash or bit of string be sure to get,
Though strings attached won't give complete control;
Unlike My Whole, it is no marionette.

7
My First's a word of many meanings,
Towards one of which a drunk has leaniugs.
My Last deuotes increase of yield Or growth, in almost any field. My Total is a deal we make.
Unlike the New Deal, give and take;-
Let's call the same My Whole, and shake.

## 8

A Prince of Darkness, of disfame,
Was called My First, his Roman name.
My Second is a gauge of wood
With measurements well understood.
My Total is a jarring note
From music-instrument, or throat.

9
My First, in Latin, means a man;
So does My Second, in Japan.
My Whole is pure and quite unsoiled,
One whom no man has yet despoiled.

## 10

My Whole, a mimic, has great length of days
And speaks with tongues it doesn't understand,
Swears on My First with any master hand,
But pure My Last is most of what it says.

11
My First is where a guard is placed.
My Last is dealt, and may be faced.
My Whole will be conveyed posthaste.

12
My Whole is a feature in certain terrain.
My Second occasions a financial drain.
My Last is a scheme for reversing a train.
My Whole, though predestined to live a high life,
Is bred in a district where discord is rife,
Accustomed to violence, gun play and strife.

## FROZEN DEATH

## By ROBERT WILSON

The events described herewith took place within 20 miles of Montpelier, Vermont. They were first fonnd recorded in a local diary which the author verified with an old man who vouched for their truth -and said liis father was among those operated on. The practise is not commonly carried on today. "January 7. I went on the mountain today and witnessed what to me was a horrible sight. It seems that the dwellers there who are unable either from age or other reasons to contribute to the support of their families are disposed of in the winter months.
"I will describe what I saw. Six persons, four men and two women, one man a cripple about 30 years old, the other five past the age of usefulness, lay on the earthy floor of the cabin drugged into insensibility, while members of the families were gathered about them in apparent indifference. In a short time the unconscious bodies were inspected by one man who said: "They are ready."
"They were then stripped of all their clothing except a single garment. The bodies were carried outside and laid on logs exposed to the bitter cold mountain air, the operation having been delayed several days for suitable weathcr.
"Soon the noses, ears and fingers began to turn white, then the limbs and faces assumed a tallowy look. I could stand the cold no longer and went inside, where I found the friends in cheerfui conversation. In about an hour I went out and looked at the bodies. They were fast freezing.
"Again I went inside where the men were smoking their clay pipes but silence had fallen on them. Perhaps they were thinking that the time would come when they would be carried out in the same way.
"I could not shut out the sight of the freezing bodies outside, neither could I bear to be in darkness, but I piled on the wood in the cavernous fireplace and, seated on a single block, passed the dreary night, terror stricken by the horrible sights I had witnessed.

January 8. Day came at length but did not dissipate the terror that filled me. The frozen bodies became visibly white on the snow that lay in huge drifts about them. The women gathered about the fire and soon began to prepare breakfast. The men awoke, and affairs assumed a more cheeriul aspect.
"After breakfast the men lighted their pipes and some of them took a yoke of oxen and went off into the forest, while others proceeded to nail together boards making a box about ten feet long and half as high and wide. When this was completed they placed about two feet of straw in the bottom. Then they laid three frozen bodies in the straw. Then the faces and upper part of the bodies were covered with a cloth; more straw was put in the box and the other three bodies placed on top, and covered the same as the first ones, with cloth and straw.
"Boards were then firmly mailed on top to protect the bodies from being injured by carnivorous animals that made their home on these mountains. By this time the men who had gone off with the ox team returned with a huge load of spruce and hemlack boughs which they unloaded at the foot of a steep ledge, came to the house and loaded the box containing the bodies on the sled and drew it near the load of boughs.
"Thesc were soon piled on and around the box and it was left to be covered with snow which I was told would lie in drifts 20 feet deep over this rude tomb. 'We shall want our men to plant our corn next Spring,' said the wife of one of the frozen men, 'and if you want to see them resuscitated, you come here about the 10 th of next May.
'With this agreement I left the mountaineers, living and frozen, to their fate and returned to my home in Boston where it was weels before I was fairly myself.'

Turning the leaves of the diary, I came to the following entry: "May 10. I arrived here at $10 \mathrm{a} . \mathrm{m}$. after riding about four hours over muddy, unsettled roads. The weather here is warm and pleasant, most of the snow is gonc except where there are drifts in the fence corners and hollows. But nature is not yet dressed in green.
"I found the same parties here I left last January. They were ready to disticter the boides, but I had wo expectatikns of thading life there. A feeling that I could not resist, however, impelled me to come and see.

## HAST RELEF Fus for LAMENESS DUE TO SWELLINGS PUFFS and BRUSES

For over 40 years many leading veterinaries have used Absorbine for lameness due to swellings, puffs and bruses. Absorbine speeds the flow of blood to the injury to help carry off the congestion. Often swellings are relieved in a few hours.

Absorbine will not blister or re move hair. It is not a "cure-all" but of proven help in relieving fresh bog spavin, windgall, collar gall and similar congestive troubles. $\$ 2.50$ for a LONG-LASTING BOTTLE that will prove its value many times! At all druggists. W. F. Young, Inc., Springfield, Mass.

HOW ABSORBINE WORKS: If speeds the blood fow-increases local circulation. This In furn speeds washing out of waste matter. Two ounces in a quart wash tends to prevent stiffening or chilling.

## ABSORBINE

## THE FOUR FREEDOMS AND OUR FOUR DUTIES

By HENRY A. WALLACE

The march of freedom of the past 150 years has been a long-drawnout people's revolution. In this Great Revolution of the people, there were the American Revolution of 1775, the French Revolution of 1792, the Latin-Aınerican revolutions of the Bolivarian era, the German Revolution of 1848, and the Russian Revolution of 1918. Each spoke for the common man in terms of blood on the battlefield. Some went to excess. But the significant thing is that the people groped their way to the light. More of them learned to think and work together.

The prophets of the Old Testament were the first to preach social justice. But that which was sensed by the prophets many centuries before Christ was not given complete and powerful political expression until our nation was formed as a Federal Union a century and a half ago. Even then, the march of the common people had just begun. Most of them did not yet know how to read and write. There were no public schools to which all children could go. Men and women cannot be really free until they have plenty to eat, and time and ability to read and think and talk things over. Down the years, the people of the United States have moved steadily forward in the practice of democracy. Through universal education, they now can read and write and form opinions of their own. They have learned, and are still learning, the art of production-that is, how to make a living. They have learned, and are still learning, the art of self-government.

As we begin the final stages of this fight to the death between the free world and the slave world, it is worth while to refresh our minds about the march of freedom for the common man. The idea of freedom -the freedom that we in the United States know and love so wellis derived from the Bible with its extraordinary emphasis on the dignity of the individual. Democracy is the only true political expression of Christianity.

The people, in their millennial and revolutionary march toward manifesting here on earth the dignity that is in every human soul, hold as their credo the Four Freedoms enunciated by President Roosevelt in his message to Congress on January 6, 1941. These Four Freedoms are the very core of the revolution for which the United Nations have taken their stand. We who live in the United States may think there is nothing very revolutionary about freedom of religion, freedom of expression, and freedom from the fear of secret police. But when we begin to think about the significance of freedom from want for the average man, then we know that the revolution of the past 150 years has not been completed, either here in the United States or in any other nation in the world. We know that this revolution cannot stop until freedom from want has actually been attained.

And now, as we move forward toward realizing the Four Freedoms of this people's revolution, I would like to speak about four duties. It is my belief that every freedom, every right, every privilege has its price, its corresponding duty without which it cannot be enjoyed. The four duties of the people's revolution, as I see them today, are these:

1. The duty to produce to the limit.
2. The duty to transport as rapidly as possible to the field of battle.
3. The duty to fight with all that is in us.
4. The duty to build a peace-just, charitable, and enduring.

The fourth duty is that which inspires the other three.
The people's revolution is on the march, and the devil and all his angels cannot prevail against it. They cannot prevail, for on the side of the people is the Lord.

> "He giveth power to the faint; to them that have no might He increaseth strength. morlint up sut They that wait upon the Lord shall. they shall walk and not faint."

Strong in the strength of the Lord, we who fight in the people's cause will never stop until that cause is won.

## PROBABLY JUST PLAIN JANUARY 25, 1942 TO YOU

The Old Farmer wonders how many folks on this date last year were mildly startled to read that Thailand's minister had declared war on U. S. and Great Britain-not as of 1942 as our calendar had it-but as of "B.E. 2485" as his calendar had it. Further, in the State Department Bulletin of February 7, 1942, this odd date was again confirmed by ourselves as official.

The abbreviation "B.E.," it seems, stands for "Buddhist Era" and the manner in which " 2485 " Was arrived at is to be found on page 197 of the 1940-41 Directory for Bangkok and Thailand.
"In the fifth reign there were three Calendars in use-the religious calendar, the old civil calendar, and the official civil calendar. The first was the calendar for the Buddhist Era, dating from the death of the Buddha, and ante-dating the Christian era by 543 years. The year began with the full moon of the sixth Siamese lunar month. The second'is still the country people's calendar, and defines dates according to the Chulasakaraht era, introduced according to tradition, by a distinguished Siamese King named Phra Ruang. The commencement of this era is 639 vears subsequent to the commencement of the Christian era. It is a lunar calendar subject to much adjustment by intercalary methods. The year begins with the first of the waxing moon of the fifth month. The official civil calendar was adopted in 1889 and was simply the Gregorian Calendar, with the year commencing on the 1st of April, and the year of the establishment of Bangkok as the capital was taken as the date to be reckoned from. In 1912 the Gregorian Calendar was adopted for the Buddhist Era, and in 1913 this new Buddhist Era was adopted for official records, in place of the Bangkok Era (Ratanakosidr Sok). The change was made because it was felt that, for historical purposes, an era which went no further back than a little over a century and a quarter, was an inconvenient one to employ. The year 2483, B.E., began on the 1st April, 1940. In 1917 a decree was issued making the reckoning of the day and night the same as in Europe the day commencing twelve hours (nalika) before mid-day, and ending twelve hours after. Officially the hours are now counted from 1 to 24 . In 1920 the Standard Time of seven hours east of Greenwich was adopted for the whole country.

From 1941, Thailand's New Year begins on the 1st of January."
This information is by courtesy of E. Wilder Spaulding, Department of State, Washington. The Department assumes, however. no responsibility for the accuracy of statements containcd in publications which are not official.

## TABLE OF PROBABLE LONGEVITIES

## (100 years being the average for OFA constant readers)

Linesmen ..... 25
Congressmen ..... 30
Soldier ..... 70
Sailor ..... 70
Auto driver ..... 40
Smoker ..... 80
Non smoker ..... 80
Publisher ..... 30
Six day bike rider ..... 60
Pilot ..... 50
Umbrella carrier ..... 90
Office worker ..... 75
Salesman ..... 50
Housewife ..... 60
Small business man ..... 2
Parachutist ..... 80
Hen pecked Husband Pedestrian ..... 10
Worrier ..... 100
Non worrier ..... 100
Light drinker ..... 70
Medium drinker ..... 90
Heavy drinker ..... 50
Non drinker ..... 50
Washington D. C. resident ..... 30
Commuter ..... 20
Republican ..... 15
Democrat ..... 30
Socialist ..... 40
Laborer ..... 60
Farmer ..... 80
New Dealer ..... 100

## 1943 FORECAST

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## RECIPES FOR WARTIME

## By LOUISA P．SKILTON

## 1．FIOM AMERICAN IESTERDAYS

## A Colonial Trise－17\％6

12 macaroons
1 teaspoon al－ mond ex－ tract
4 cups milk
变 cup sugar
teaspoon salt

6 egg yolks， slightly beaten
3 tablespoons sugar
6 egg whites， beaten stiff

Roll one macaroon to make fine crumbs and place others in the Kottom of a serving dish； sprinkle with almond extract． Scald milk over hot water．Add sugar and salt to egg yolks；stir slowly a little of the lot milk into this mixture，blend and pour back iolo scalded milk．Cook over lot water until mixture thickens； cool，pour over macaroons and chill．Fold sugar into egg whites and pile lightly on top，garnish with macaroon crumbs．

George Washington was extremely fond of fish and whenever possible dined on Saturday on a＂salt fish dinner＂．For this purpose Tobias Lear，Washington＇s secretary， bought and shipped from Ports－ mouth．N．H．quintals of＂dumb fish＂for use by the Washington family．

## Queen Cake－1812

2 cups butter

2 cups sugar 8 cggs
5 cups flour

年 pound cur－ rants
1 nutmeg， grated

Cream butter and sugar．Add half the eggs and beat for 10 minutes；add remaining eggs and beat 10 minutes more．Stir in lightly the flour，currants and nutmeg．Place mixture in small， buttered，heart－shaped tins and bake in a moderate oven $375^{\circ} \mathrm{F}$ ． 12 to 15 minutes．

These cakes were also called ＂Heart Cakes＂because of the shape in which they were baked． They were used for gracious en－ tertaining in the old mansions of the period．

## Hard Sugar Gingerbread－1864

1 cup butter
2 cups sugar
1 egg
1 teaspoon
soda
$\frac{1}{2}$ eup sour milk 3 cups flour 1 teaspoon ginger

Cream butter and sugar；beat in the egg．Stir soda into sour milk and add alternatcly with flour and ginger．Place mixture on greased baking sheets，roll to
$1 / 4$－inch thickness and mark with a creased rolling pin．Bake in a moderate oven at $350^{\circ} \mathbf{F}$ ．for 15 to 18 minutes or until a delicate brown．Cut in oblongs and re－ move from baking sheets to cool．

This＂gingerbread＂was probably adapted from Zanzibar Gingerbread which women of Salem made and packed in tins for their sailors dur－ ing the Clipper Days．

## Delhi Soda Cake－1898

各 cup butter
2 cups sugar
3 eggs，well beaten
3 cups flour
1 teaspoon
cream of
tartar
Cream butter with the sugar and add eggs．Sift flour with cream of tartar and soda and add alternately with milk．Flavor with ranilla．Bake in well－ greased loaf pan in moderate oren， $350^{\circ} \mathrm{F}$ ．for 60 miuutes．

A great favorite for holidays be－ cause it could be made well in advance．

## Barley Pie Crust－1918

1 cup barley flour
1 cup rice flour
1 teaspoon baking pow－ der
Sift together，three times，the barley and rice flours with the baking powder and salt；cut in $\frac{\pi}{2}$ cup of the shortening．Add enough ice water to form a stiff dough．Toss dough onto a lightly floured board，roll to $1 / 4$－inch thickness，dot with bits of the remaining shortening，fold，roll again and repeat．Chill thor－ oughly several hours before us－ ing．

## Corn Crisps

2．cups corn meal
2 cups water
$1 \frac{1}{2}$ teaspoon salt
1 tablespoon fat

Boil together for 5 minutes the corn meal，water and salt；add fat．Drop mixture from table－ spoon onto a greased baking slieet and bake about 30 minutes in a moderate oven at $350^{\circ} \mathrm{F}$ ． Serve hot with maple sirup， honey or boiled molasses．

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## RECIPES FOR WARTIME

## By LOUISA P．SKILTON

## 2．TOR AMERICANS TODAY



Sift together the flour，salt， baking powder，sugar and corn meal．Add the egg，unbeaten，and milk；stir lightly until blended， and then add the melted fat．Pour the batter into a well－greased baking dish and sprinkle the raisins over the top of the batter． Bake at $375^{\circ} \mathrm{F}$ ．about 30 minutes． During the baking，the raisins will sink into the batter and will be distributed throughout the bread．

Soy Bean Entire－Wheat Bread
$1_{\frac{1}{2}}^{2}$ cups milk
$\frac{1}{1}$ cup mo－
lasses
13 $\frac{1}{2}$ teaspoons salt
13 $\frac{1}{2}$ tablespoons shortening
${ }^{1 \frac{1}{2}}$ cakes yeast
1 cup soy bean flour
$1 \frac{1}{2}$ cups entire－ wheat flour
1零 cups en－ riched flour
Scald milk，cool slightly；add molasses，salt and shortening． When the mixture is lukewarm， crumble yeast into it．Add soy bean flour，entire－wheat flour and enough enriched flour to handle． Knead and allow to rise and bake as in recipe for Entire－Wheat Bread．Yield： 1 loaf．

## Mam and Vegetable Salad

1
1 cụp cooked
green peas
1 cup cooked carrots， diced
1 cup cooked potatoes， diced
1 tablespoon
onion，
minced
Mix lightly peas，carrots，diced potatoes and minced onion．Salt to taste and blend with mayom－ naise；chill thoroughly．

When ready to serve，place slice of ham on chilled salad plate．Add $\frac{f}{}$ of salad mixture and roll ham around it like a cornucopia；fasten in place with hors d＇oeuvre sticks topped with olives．Garnish with lettuce and chicory．Prepare three more in－ dividual plates．

Entire－Wheat Bread and

## Pan Biscuits

2 cups milk
1 cup mo－ lasses
1需 teaspoons salt
2 tablespoons shortening
Scald milk，remove from hcat and add molasses，salt and short－ ening．Cool to lukewarm and crumble yeast into mixture．Stir in entire－wheat flour and enough of the bread Hour to make dough that can be kneaded；turn mix－ ture onto a lightly floured board； knead until smooth and elastic． Place in a lightly greascd bowl， cover and allow to rise until doubled in bulk．This requires about 2 hours．Turn dough onto board again and knead about 5 minutes；cut into two parts． Shape one part into a loaf and place in a greased bread pan； cover and allow to rise in a warm place．When doubled in bulk， bake at $400^{\circ} \mathrm{F} .10$ minutes；re－ duce heat to $350^{\circ} \mathrm{F}$ ．to complete baking（about 50 minutes）．

Roll remainder of dough to 1－inch thickness；cut into rounds with a floured cutter about 2 － inches in diameter and form into balls．Place balls in a grcased baking dish；cover and allow to rise．When doubled in bulk，bake at $400^{\circ} \mathrm{F} .15$ to 20 minutes． Yield： 1 loaf，15－16 biscuits．

## Carrots with Celery Sauce

> 2 bunches young carrots
> 4 tablespoons butter
> $\frac{1}{6}$ cup onion, minced
> $\frac{3}{2}$ cup celery, choped
：cup green pepper， shredded Salt Pepper
3 tablespoons flour
1交 cups cook－ ing water from carrots

Wash carrots，scrape lightly and cook in boiling water until tender．Remove and keep hot． Melt butter and in it sauté onion， celery and green pepper．Season with salt and pepper．Push vegc－ tables to one side of skillct and tip so that remaining butter runs to one side；stir in flour and add cooking water gradually． When sauce is smooth stir in vegetables．Pour over carrots and scrve．Serves 6 to 8.

# ALMANACKS AND ALMANAC MAKERS 

By GEORGE P. PUTNAM, 1856

The word "Almanac ( $k$ )" is of unsettled origin. Most antiquaries have supposed that the " $A l$," in this word, is derived from the Arabic article, which signifies the; but then, some derive the remainder of the word from the Greek word, дарaкos-a lunary circle, or the course of months. Johnson takes it from the Greek, $\mu \eta \nu$-a month; others from the Hebrew, Manach-to count-or mana-a reckoning; others, again, from the Dutch, Maand, or German, Moand-the moon, or an account of every moon, \&c. As the various rites and observances in most religions were regulated by the periods of the moon, none of these derivations are improbable. It is certain that the word Calendar, which is used in connection with our almanacs, was derived from the Greek, Kaleo-I call-because a sacrifice was offered, at the appearance of the new moon, by the proclamation of the priest. It is singular that all should agree to take the first syllable, $A l$, from one language, and the two last from so many different ones. It is probable that Verstigan is more nearly right. He says that it is a Saxon word; that the first of them were kept on carved sticks, which were called Al-mon-aght-signifying, in old English, or Saxon, all-moon-heed, or the regard or observation of all the moons, and hence the word Almanac. This latter seems, at least, to have been the more immediate derivation, and the former more remote. The Egyptians computed time by instruments which were probably not so rustic as the carved sticks, which were the Runic Almanacs, used by the Danes, Swedes, and Norwegians. These latter were called Reinstocks, Runstocks, Primstanes, Clogs, etc. The Egyptian Obelisks may yet prove to be almanacs or astrological calculations. The Egyptian priests called them "fingers of the sun."

Michael Nostrodamus the celebrated astrologer wrote an almanac in the style of Merlin, 1566.-Dufresnoy. The most noted early almanacs were:
John Somer's Calendar, written in Oxford ............. 1380
One in Lambeth palace, written in

1460
First printed one, published at Buda ..................... 1472
First printed in England, by Richard Pynson ............ 1497
Tybault's Prognostications. . 1533
Of Moore's, at one period, upwards of 500,000 copies were annually sold. The Stationers' company claimed the exclusive right of publishing. until 1790, in virtue of letters patent from James I., granting the privilege to this company, and the two universities. The stamp duty on almanacs was abolished in England, 1834.
1784, Isaiah Thomas, one of the most noted of early printers of this country, issued an almanac. These almanaes became a good advertising medium to booksellers.
1793, "The Farmer's Almanac," by Robert B. Thomas.
1806, first almanac printed at Constantinople, Turkey.
1820, "The Ladies" and Gentlemen's Diary, or the United States Almanac and Repository, of Science and Amusements," by M. Nash. 1829, "American Almanac" commenced.

We have thus detailed some of the principal of which the date of first publication has been found. Besides these, the following have been more or less noted: "Goldsmith's Alınanac," "Rider's Pocket Alnanac," and "White's, Ephemeris, or Celestial Atlas," "Britislı Almanac and Companion."

Thr altame mas eaconifell as St. Atwachius, in the homan Calendar.

## Cooked Salad Dressing

## 1 teaspoon salt <br> 1 teaspoon <br> mustard <br> Dash of <br> Cayenne <br> 2 tablespoons flour

2 tablespoons sugar
2 egg yolks or 1 whole egg
1 cup evaporated milk
4 tablespoons lemon juice
Blend salt, mustard, Cayenne, flour and sugar. Add egg yolks or whole egg. Mix well, then add milk. Cook over boiling water until mixture thickens. Cool, then stir in the lemon juice slowly. Yield: $1^{\frac{1}{3}}$ cups.

## Finnan Maddie and Celery Au Gratin

2 cups cooked finnan haddie, Haked
1 cup celery, sliced thin
6 tablespoons butter
6 tablespoons flour
2 cups milk

1 tablespoon parsley, minced
2 tablespoons pimento. chopped
11 cups buttered crumbs
I $\frac{1}{2}$ cup grated cheese Cress
Prepare the finnan haddie and celery. Melt the butter and blend it with the flour. Add the milk slowly, and when the mixture thickens, fold in the parsley, pimento, finnan haddie and celery. Place In individual buttered baking dishes. Top with buttered crumbs, blended with the grated cheese. Place the baking dishes on a shallow pan, and bake at $400^{\circ} \mathrm{F}$. for about 10 minutes, or until the crumbs are a delicate brown. Serve at once garnished with a sprig of cress.

## A Ginger King

$\frac{1}{3}$ cup bacon fat
${ }_{3}$ cup boiling water
1 cup moIasses
1 egg , beaten
23 cups flour
13 teaspoons soda
$\frac{1}{2}$ teaspoon salt
112 teaspoons ginger
1 teaspoon cinnamon
$\frac{3}{4}$ teaspoon cloves Marshmallow sauce Nutmeg

Place bacon fat in boiling water; when slightly cooled add molasses and stir in the egg. Sift together flour, soda, salt, ginger, cinnamon and cloves. Stir liquid ingredlents into dry ingredients and beat well. Pour mixture into a well-greased ring pan and bake at $350^{\circ}$ F. about 40 minutes. Serve warm with marshmallow sauce, sprinkled with nutmeg.

## Apple Popper Relish

2 sweet red
peppers
3 large mild onions
3 nediumsized tart apples

1 tablespoon grated lemon rind
$\frac{7}{3}$ cup lemon juice
? ${ }^{3}$ cup honey $\frac{3}{4}$ teaspoon saIt

Remove seeds from peppers and chop; peel onions and chop; pare, core and chop apples. Place in sauce pan. Add lemon rind and juice. Heat slowly to boiling point. Add honey and salt and simmer gently 20 minutes or until liquid is of the consistency of honey. May be used after cooling or if preferred may be placed hot in a sterile jar and sealed. Yield: 1 pint.

## Liberty Cookies

17 -ounce bar semi-sweet chocolate
$\frac{1}{2}$ cup shortening
2 eggs
cup sugar
$\frac{7}{3}$ cup milk
1\% cups flour
1 teaspoon baking powder
$\frac{1}{2}$ teaspoon salt
Melt chocolate and shortening over hot water. Beat eggs and add sugar and milk. Sift flour with baking powder, salt and cinnamon; mix with egg mixture and add melted chocolate and shortening. Add vanilla. Stir in the oats, raisins and peanut meats. Drop by teaspoonfuls onto well greased cookie sheet and bake at $350^{\circ} \mathrm{F}$. for 15 minutes. Yield: 4 dozen cookies.

## Fruited Tea Loaf

戠 cup dried
apricots
3 cup aried
prunes
2 cupsen. riched flour
$\frac{1}{2}$ teaspoon saIt

3 teaspoons baking powder
\& cup shortening
1 cup 1 ght corn sirup
1 egg, unbeaten
$\frac{1}{2}$ cup milk
Cover apricots and prunes with cold water, drain and cut in small pieces. Sift together the flour, salt and baking powder. Cream shortening and add sirup; stir in about a half cup of the flour mixture, then egg, and beat well. Add remainder of flour mixture, alternately with milk. Fold in apricots and prunes. Place mixture in long loaf pan and bake in moderate oven at $350^{\circ} \mathrm{F}$. for 1 hour.

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| 10 | .12 | . 18 | . 18 | . 27 | . 42 | . 59 | . 75 | . 95 | 1.14 |
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| 14 | . 14 | . 23 | . 23 | . 35 | . 56 | . 80 | 1.03 | 1.31 | 1.58 |
| 15 | . 14 | . 24 | . 24 | . 37 | . 59 | . 86 | 1.10 | 1.40 | 1.69 1.80 |
| 16 | . 15 | . 25 | . 25 | . 39 | . 63 | . 91 | 1. 1.24 | 1.49 | 1.81 |
| 17 | . 15 | . 26 | . 26 | . 41 | . 68 | 1.02 | 1.31 | 1.68 | 2.02 |
| 18 | . 16 | . 278 | . 27 | . 43 | . 70 | 1.02 | 1.38 | 1.76 | 2.13 |
| 19 | . 16 | . 28 | . 28 | . 45 | . 73 | 1.07 1.12 | 1.38 | 1.85 | 2.24 |
| 20 | . 177 | . 29 | . 29 | . 47 | . 80 | 1.17 | 1. 1.52 | 1.94 | 2.35 |
| 21 | . 18 | . 32 | . 32 | . 51 | . 84 | 1.23 | 1.59 | 2.03 | 2.46 |
| 23 | .18 | . 33 | .33 | . 53 | . 87 | 1.28 | 1.66 | 2.12 | 2.57 |
| 24 | . 19 | . 34 | . 34 | . 55 | . 91 | 1.33 | 1.73 | 2.21 | 2.68 |
| 25 | . 19 | . 35 | . 35 | . 57 | . 94 | 1.39 | 1.80 | 2.30 | 2.79 |
| 26 | . 20 | . 36 | . 36 | . 59 | . 98 | 1.44 | 1.87 | 2.39 | 2.90 |
| 27 | . 20 | . 37 | . 37 | . 61 | 1.01 | 1.49 | 1.94 | 2.48 | 3.01 |
| 28 | . 21 | . 38 | . 38 | . 63 | 1.05 | 1.55 | 2.01 | 2.57 | 3.12 |
| 29 | . 21 | . 39 | . 39 | . 65 | 1.08 | 1.60 | 2.08 | 2.66 | 3.23 |
| 30 | . 22 | . 40 | . 40 | . 67 | 1.12 | 1.65 | 2.15 | 2.75 | 3.34 |
| 31 | . 22 | . 41 | . 41 | . 69 | 1.15 | 1.70 | 2.22 | 2.84 | 3.45 |
| 32 | . 23 | . 43 | . 43 | . 71 | 1.19 | 1.76 | 2.29 | 2.93 | 3.56 |
| 33 | . 23 | . 44 | . 44 | . 73 | 1.22 | 1.81 | 2.36 | 3.02 | 3.67 |
| 34 | . 24 | . 45 | . 45 | . 75 | 1. 26 | 1.86 | 2.43 | 3.11 | 3.78 |
| 35 | . 24 | . 46 | . 46 | . 77 | 1.29 | 1.92 | 2.50 | 3. 20 | 3.89 4.00 |
| 36 | . 25 | . 47 | . 47 | . 79 | 1.33 | 1.97 | 2.57 | 3.29 | 4.00 |
| 37 | . 25 | . 48 | . 48 | . 81 | 1.36 | 2.02 | 2.64 | 3.38 | 4.11 |
| 38 | . 26 | . 49 | . 49 | . 83 | 1.40 | 2.08 | 2.71 | 3.47 | 4.22 |
| 39 | . 26 | . 50 | . 50 | . 85 | 1.43 | 2.13 | 2.78 | 3.56 | 4.33 |
| 40 | . 27 | . 51 | . 51 | . 87 | 1.47 | 2.18 | 2.85 | 3.65 | 4.44 |
| 41 | . 27 | . 52 | . 52 | . 89 | 1.50 | 2.23 | 2.92 | 3.74 | 4.55 |
| 42 | . 28 | . 54 | . 54 | . 91 | 1.54 | 2.29 | 2.99 | 3.83 | 4.77 |
| 43 | . 28 | . 55 | . 55 | . 93 | 1.57 | 2.34 2.39 | 3.06 | 4.92 | 4.88 |
| 44 | . 29 | . 56 | . 56 | . 95 | 1.61 | 2.39 2.45 | 3.13 3.20 | 4.01 4.10 | 4.88 4.99 |
| 45 | . 29 | . 57 | 57 | 97 | 1.64 | 2.45 | 3.20 | 4.10 | 4.9 |


| Welght In | Local | ZONES |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1st | 2 d | 3 d | 4th | 5th | 6 th | 7 th | 8th |
|  |  | Up to | 50 to | 150 to | 300 to | 600 to | 1,000 to | 1,400 to | over |
|  |  | 50 | 150 | 300 | 600 | 1,000 | 1,400 | 1,800 | 1800 |
| pounds |  | milles | miles | miles | miles | miles | miles | miles | miles |
| 46 | 30 | . 58 | . 58 | . 99 | 1.68 | 2.50 | 3.27 | 4.19 | 5.10 |
| 47 | . 30 | 59 | . 59 | 1.01 | 1.71 | 2.55 | 3.34 | 4.28 | 5.21 |
| 48 | . 31 | . 61 | . 60 | 1.03 | 1.75 | 2.61 | 3.41 | 4.37 | 5.32 |
| 49 | . 31 | 61 | . 61 | 1.05 | 1.78 | 2.66 | 3.48 | 4.46 | 5.43 |
| 50 | 32 | . 62 | . 62 | 1.07 | 1.82 | 2.71 | 3.55 | 4.55 | 5.54 |
| 51 | 32 | 63 | . 63 | 1.09 | 1.85 | 2.76 | 3.62 | 4.64 | 5.65 |
| 52 | 33 | 65 | . 65 | 1.11 | 1.89 | 2.82 | 3.69 | 4.73 | 5.76 |
| 53 | 33 | . 66 | . 66 | 1.13 | 1.92 | 2.87 | 3.76 | 4.82 | 5.87 |
| 54 | 34 | . 67 | . 67 | 1.15 | 1.96 | 2.92 | 3.83 | 4.91 | 5.98 |
| 55 | . 34 | 68 | . 68 | 1.17 | 1.99 | 2.98 | 3.90 | 5.00 | 6.09 |
| 56 | . 35 | . 69 | . 69 | 1.19 | 2.03 | 3.03 | 3.97 | 5.09 | 6.20 |
| 57 | . 35 | 70 | . 70 | 1.21 | 2.06 | 3.08 | 4.04 | 5.18 | 6.31 |
| 58 | . 36 | . 71 | . 71 | 1.23 | 2.10 | 3.14 | 4.11 | 5.27 | 6.42 |
| 59 | . 36 | . 72 | . 72 | 1.25 | 2.13 | 3.19 | 4.18 | 5.36 | 6.53 |
| 60 | . 37 | .73 | . 73 | 1.27 | 2.17 | 3.24 | 4.25 | 5.45 | 6.64 |
| 61 | . 37 | . 74 | . 74 | 1.29 | 2.20 | 3.29 | 4.32 | 5.54 | 6.75 |
| 62 | . 38 | . 76 | . 76 | 1.31 | 2.24 | 3.35 | 4.39 | 5.63 | 6.86 |
| 63 | . 38 | . 77 | . 77 | 1.33 | 2.27 | 3.40 | 4.46 | 5.72 | 6.97 |
| 64 | . 39 | . 78 | . 78 | 1.35 | 2.31 | 3.45 | 4.53 | 5.81 | 7.08 |
| 65 | . 39 | . 79 | . 79 | 1.37 | 2.34 | 3.51 | 4.60 | 5.90 | 7.19 |
| 66 | . 40 | . 80 | . 80 | 1.39 | 2.38 | 3.56 | 4.67 | 5.99 | 7.30 |
| 67 | . 40 | . 81 | . 81 | 1.41 | 2.41 | 3.61 | 4.74 | 6.08 | 7.41 |
| 68 | . 41 | . 82 | . 82 | 1.43 | 2.45 | 3.67 | 4.81 | 6.17 | 7.52 |
| 69 | . 41 | . 83 | . 83 | 1.45 | 2.48 | 3.72 | 4.88 | 6.26 | 7.63 |
| 70 | . 42 | . 84 | . 84 | 1.47 | 2.52 | 3.77 | 4.95 | 6.35 | 7.74 |

(a) In the first or second zone, where the dtstance hy the shortest regular practicahle mall route is 300 miles or more, the rate is 9 cents for the irst pound and 2 cents for each additonal pound.
(h) On parcels collected on rural routes the postage is 2 cents less per parcel than shown in the foregolng tahle when for local dellvery and 3 cents less per parcel when for other than local dellvery:
(c) Parcels welghing less than 10 pounds measuring over 84 inches, hut not more than 100 inches in length and girth comhined, are suhject to a minimum charge equal to that for a 10 -pound parcel for the zone to which addressed
(d) For special rates on books, and on catalogs and other slmallar printed advertisfng matter, consult postmaster
Limit of size for parceis is 100 inches in length and girth comhined. Limit of weight
is 70 pounds in all zones.
Ulbrary Books. Books contalning no advertising matter other than incidental announcements of hooks. Catalogs over 8 ounces in welght. Special rates of postage are pro-
vided for these items. (Inquire at Post Offle.)

## SPECLAL HANDLING. (Fourth Class Matter Only)

Parcels of 4th Class Matter endorsed "Special Handling" will be given the most expedlclous treatment practicahle (but not Special Delivery) upon payment, in addition to regular postage: Up to 2 Ibs. 10 c ; Over 2 to 10 ths. 15 c ; Over 10 lbs. 20 c .
sPECIAL DELIVERY FEES

 to the most expeditious handling and transportation practicahle, and also entitles it to special delivery at the office of address.
To Canada; United States Special Dellvery Fees are applicable on articles prepald at the letter rate of postage. Newfoundland and Lahrador 20 c prepaid in addition to regular postage on letters or articles only prepald at the letter rate... and see p. 64.

REGISTERED MAIL


C.O.D. Mall - Unreglstered (thrd and fourth classes and sealed matter of any class bearing first-class postage) Fees for collections and Indemnity limited to:

C.O.D. Mall - Registered (sealed matter of any class hearing first-ciass postage). Consult postmaster for fees and limits of indemnlty.

## POSTAL MONEY ORDERS

For Orders
From \$0.01 to From $\$ 2.51$ to From \$5.01 to
From $\$ 10.01$ to
$\$ 2.50 \ldots .6$ cents
$\$ 5.00 \ldots .8$ cents
$\$ 10.00 \ldots .11$ cents
$\$ 20.00 . . .13$ cents

## For Orders

From $\$ 20.01$ to
From $\$ 40.01$ to
From $\$ 60.01$ to
From $\$ 80.01$ to
840.00.... 15 cents \$60.00. . . . 18 cents $\$ 80.00 \ldots . .20$ cents $\$ 100.00$. . . 22 cents

## POSTAL RATES.-FOREIGN

Letters.- For the places in the following list the postal rate is 9 cents each ounce or fraction. For all other foreign destinations, 5 conts first ounce and 3 cents each additional ounce or fraction: Argentina, Bolivia, Brazil, Canada, Chile, Colombla, Costa Rlea, Cuba, Dominican Republlo, Ecuador, Guatemala, Halti, Honduras (Republic), Labrador, Mexlco, Newfoundland, Nicaragua, Panama, Paraguay, Peru, Salvador, E1; Spain and possessions; Uruguay, Venezuela.
Letter Packages.-Articles liable to customs duty may be sent at the letter rate to certain foreign countries. (Inquire at main office or classified stations.) The paper form of customs declaration (Form $2976-\mathrm{A}$ ), or an invoice, must be enclosed in each such package and the green label, Form 2976, must be affixed to the outside of the envelope or wrapper. The customs declaration and green label may be obtained free at the post office.
Currency, Jewelry, and other precious articles.-Coins, bank notes, paper money, or any values payable to bearer; platiuum, gold, or silver, manufactured or unmanufactured; precious stones, jewelry, or other precious articles are prohibited in the unregistered mails. Money in cash, bank notes, or values payable to the bearer, whether sent in the registered or ordinary mails, are prohibited to certain countries, and in some cases may even be confiscated. Patrons should inquire at the main office or classified stations as to the admissibility of such articles in the letter mails to any particular foreign country.
Post Cards.-Single post cards for places enumerated above 2 cents. Single post cards for all other foreign destinations 3 cents. Maximum size $6 \times 41 / 4$ inches, minimum size $4 \times 23 / 4$ inches.
Printed Matter.- $11 / 2$ cents for each two ounces or fraction. Limit of weight. Inquire at Post Office. (Canada, 4 lbs., 6 oz .)
Reduced Postage Rate on Books.-For each pound or fraction- 5 cents.
Weight limit: 22 pounds, except in case of single volumes addressed to Cuba, El Salvador, Mexico or Panama, where there is no limit of weight. To Peru the weight limit for books is 11 pounds.

This reduced rate is applicable exclusively to books which do not contain publicity or advertising other than that appearing on the covers or fly-leaves, when addressed to the following countries: Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti (Rép. of), Honduras. Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay and Venezuela.
Samples of merchandise. -For all foreign destinations, $11 / 2$ cents each 2 ounces or fraction, with a minimum charge of 3 cents. Limit of weight: 18 ounces.
Commerclal papers.-For all forelgn destinations, $11 / 2$ cents each 2 ounces or fraction, with a minimum charge of 5 cents. Limit of weight 4 lbs., 6 oz .
Eight-ounce Merchandise Packages.-Packages of merchandise weighing 8 ounces or less, for the countries specially named in the table. 2 cents for each 2 ounces, except that when the contents consist of seeds, scions, plants, cuttings, bulbs, or roots, the rate is $11 / 2$ cents for each 2 ounces. (This is not parcel post, must not have customs declarations attached, and must not be sealed except when addressed for delivery in Canada, in which case such packages slould be marked "This may be opened for postal inspection if necessary." There is also an exception with respect to sealing in the case of c. o. d. 8-ounce merchandise packages for Mexico, which may be sealed.)
Small Packets.-Three cents for each 2 ounces, with a minimum charge of 15 cents per packet. Limit of weight: 2 pounds 3 ounces. (Inquire at main post office or classified stations for list of countries which accept small packets.) Small packets must bear the green label, Form 2976. They must also be accompanied by the paper form of customs declaration (Form 2976-A), properly completed by the sender and enclosed in the small packet. It is likewise permissible to enclose in small packets an open invoice reduced to its essential terms. Every small packet must be clearly marked on the wrapper by the sender with the words "small packet."
None of the articles mentioned, under the heading "Currency, Jewelry, and other precious articles" above, may be forwarded in small packets, even though registered.

Maximum dimenslons.-For all forelgn destinations on all classes of mail noted above (except Post Cards), 36 inches length, breadth and thickness combined, the length being limited to 24 inches. When sent in the form of a roll the length (the maximum of which is 32 inches) plus twice the diameter is limited to 40 inches.
Registration fee.-For all forelgn destinations, 15 cents in addition to postage. When a return recelpt is requested there is an additional charge of 5 cents.
Special-delivery (exprès) service is now in force with the following foreign countries:

Argentina
Australia
Bahamas
Brazil
British Guiana
British Honduras
(Belize only)
Canada
Chile
China
Cuba
Cyprus
Dominican Republic

Ecuador
Egypt
France
Gibraltar
Gold Coast Colony Great Britain and Northern Ireland
Guatemala
Ireland
Kenya and Uganda Luxemburg Mexico Morocco (Spanish Zone)

An article intended for special (exprès) delivery in any of the countries mentioned above (cxcept Cauada, where the United States domestic fees apply) must be prepaid 20 cents, in addition to the regular postage, by United States special-delivery or other stamps, affixed to the cover. There should also be aftixed one of the "expres" labels (Form 2977) or the cover must be marked boldly in red ink "Exprès." dircctly below but never on the stamps. In some countries the service is limlted to certain cities, lists of which appear under the country items in Part II of the Official Postal Guide. In Canada and Newfoundland exprès special-delivery service applies only to letters (or articles prepaid at the letter rate). In the other countries of the above list, the "exprès" feature is applicable to ordinary and registered Postal Union articles (letters, post cards, commercial papers, printed matter, samples, and small packets), but not to parcel-post packages.

## INTERNATIONAL PARCEL POST.

All forms of articles and materials may be shipped to certain foreign countries under general license when the value of the individual shipment is $\$ 25.00$ or less, except as otherwise provided. The sender must endorse the general license number, consisting of the letter $G$ followed by the number (which may be obtained from the Postmaster) assigned to the country of destination, in a conspicuous place on the address side of the wrapper. In cases, however, in which individual licenses are required, application should be made to the Office of Export Control, Board of Economic Warfare, 2501 Q Street, N. W., Washington, D. C.

No parcel or package of any class of mail addressed for delivery outside the continental United States shall be accepted for mailing if it exceeds 11 pounds in weight, or 18 inches in length, or 42 inches in length and girth combined, except as otherwise provided; also, not more than onc such parcel or package shall be accepted for mailing in any one week when sent by or on bellalf of the same person or concern to or for the same addressee. In the case, however, of the United Fing dom, not more than one parcel per montli may be sent by the same sender to the same addressee, if sent as a bona fide unsolicited gift and may not exceed 5 pounds gross weight, nor contain more than 2 pounds of any one commodity.

Because of the varying rates and conditions, as well as frequent changes, applicable to foreign countries, it is important that a qualified postal employee handle parcel post transactions. Therefore, parcel post packages for foreign destinations must not be posted in a letter box; such packages should be taken to the maln post office or to one of the larger classified stations and handed to a postal clerk.

## POSTAL MONEY ORDERS.-INTERNATIONAL.

Limlt of a Single Order, $\$ 100$.
For Orders from-
$\$ 0.01$ to $\$ 10$

 Air Mail in the Contincntal United States is 6 cents for each ounce or fraction thereof. This rate is also applicable to Canada.

The rate to Bahamas, Cuba, Dominican Republic, Haiti, Tamaica, Britisll Virgin Islands, Mexico, Puerto Rico, and Virgin Islands of the United States, is 10 cents for each $1 / 2$ ounce or fraction thereof.

# JUDGES AND TERMS OF THE UNITED STATES CIRCUIT COURTS OF APPEALS 

First Circuit. (Maine, Massachusetts, New Hampshire, Rhode Island, Puerto Rico)

Calvert Magruder, John C. Malioney, Peter Woodbury, and (retired) George H. Bingham, Scott Wilson.

One term annually, at Boston, Massachusetts, commencing on the First Tuesday of October. Stated sessions during each term, commencing on the first Tuesday of each month, except July, August, and September, which may be adjourned to such times and places as the court may designate. Sessions may be convened from time to time, as required in the public interest, at San Juan, Puerto Rico.

Second Circuit. (Connecticut, New York, Vermont)
Learned Hand, Thomas W. Swan, Augustus N. Hand, Harrie Brigham Chase, Charles E. Clark, Jerome N. Frank, and (retired) Julian W. Mack.

One term annually, at the City of New York, on the first Monday of October, which may be adjourned to such times and places as the court may from time to time designate.

Third Circuit. (Delaware, New Jersey, Pennsylvania, Virgin Islands)

John Biggs, Jr., Albert Branson Maris, Charles Alvin Jones, Herbert F. Goodrich and (retired) J. Whitaker Thompson, Victor B. Woolley, Joseph Buffington.

One term annually, commencing on the first Monday of October. Stated sessions during each term, commencing on the first and third Monday of each month, except July, August and September. Sessions are held at Philadelphia, Pa., unless otherwise specially ordered by the court.

Fourth Circuir. (Maryland, North Carolina, South Carolina. West Virginia, Virginia)

John J. Parker, Morris A. Soper, Armistead M. Doble, and (retired) Elliott Northcott.

Five terms annually, at Riclimond, Virginia, commencing on the first Monday of October and April; at Charlotte, N. C. cornmencing on the first Monday of January ; at Asheville, N. C., commencing on the first Monday in June; and at Baltimore, Md., commencing on the first Monday of November. Special terms may be held at any time on order of the court.

Fifth Circutr. (Alabama, Florida, Georgia, Louisiana, Mississippi, Texas, Canal Zone)
Samuel H. Sibley, Joseph C. Futcheson, Jr., Edwin R. Holmes, Leon McCord.

A session annually at Atlanta, Ga., commencing on the first Monday in October; at Montgomery, Alabama, commencing on the third Monday in October; at Fort Worth, Texas, commencing on the first Monday in November; at New Orleans, La., commencing on the third Monday in November. The session may be adjourned to such other times and places as the court may from time to time order and designate.

Sixte Circutr. (Kentucky, Michigan, Ohio, Tennessee)
Xen Hicks, Charles C. Simons, Florence E. Allen, Elwood Hamilton, John D. Martin, Sr., Thomas F. McAllister.

One term annually on the Tuesday after the first Monday of October, and adjourned sessions on the Tuesday after first Monday of each month, except July, August, and September. All sessions at Cincinnati. Ohio, unless otherwise specially ordered by the court.
(Continued on page 70 )

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$\square$ Please send bill

## IN REGARD TO SHEETS

Sheets are the most expensive item of housebold linen in daily use. Certain matters regarding them, fruit of long experience, may be helpful.

In buying sheets get them of the firmest as well as the heaviest quality you can afford. With single sheets,-which most of us use,-get them so wide they just don't touch the floor on either side. Then when the central part wears out, as it always does first, you can tear out a strip eighteen inches, more or less, in width, hem the torn edges and sew the selvedges together,-and you've a sheet still wide enough for camp or summer use.

In making beds, place the lower sheet, wide hem at the bottom, as far to one side as you can and still have enough to tuck in on the skimpy side. By alternating this side weekly, you spread the central wear over a wider portion, making it last longer before remaking. Place your upper sheet in the usual way, wide hem at top and properly centered, for both looks and comfort.

Professionally laundered sheets are snowy white and fragrant, spotless, smooth and crisp to the touch, with tailor pressed creases. All this means extra wear. If you live in the country or a suburb, try laundering them at home. Use a good soap powder or flakes, a washing machine or an inexpensive hand plunger. Be sure to rinse thoroughly, as soiled water is full of destructive chemicals. Hang out of doors except in a tearing wind. As you take them from the line, fold into halves and then into quarters across their length and lastly once the other way. Press only the upper quarter using a moderately hot iron and avoid pressing in any crcases. Heat and creasing are both destructive to fabric. If you find any stains or even perhaps a soiled spot from a muddy paw, leave them until the next laundering. Dirt or stains you know are harmless and don't need a lot of extra scrubbing and fabric-weakening to remove. Tine will cure!
Instead of sachets in your linen closet try using squares of pure gum camphor. They last two years or more, and have a pungent, cleanly, soporific odor, that very soon evaporates.

Ruth W. B.

## HOW TO MAKE A RACE TRACK (Just in case you want to)

The executive committee of Delaware Park, gem of horse husbandry seven miles out of Wilmington, Delaware-according to Stanley Woodward of the New York Herald Tribune-hit upon a series of mud pie tests for determining what they should use as the best race track surface. J. Simpson Dean, M.F.H., William DuPont, and Donald Ross-the committee-took a sample of surface dirt from each of the leading tracks of the country, soaked each with water, and packed it into a mud pie. After a suitable interval, they returned and started tapping each pie with pencils. In turn they tapped Pimlico, Jamaica, Suffolk Downs, and Belmont. The last named broke into the driest flakes. So they recreated the Belmont surface at Delaware Park- $(10,000 \mathrm{cu}$. yards trucked in and spread) and now the track will drain in about four hours after the hardest rain.


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## THE FOUR PILLARS OF LIFE

## By LORD HALIFAX

A great modern philosopher has warned us that one of the great tragedies of modern scientific achievement has been that the inventions of scicnce are perverted from the use for which they were designed, and employed for conquest and destruction. And, in consequence, one tinds that science is ranged against itself.

But fascinating as is the study of the milestones in man's attempt to master the laws of the strange and mysterious world by which be is surrounded, more fundamental still is the question by what process it was that man developed his intelligence, and, with his intelligence, his desire to know. What happened at the point at which man diverged from the animal somehow escaping from the path of stagnation or at least of strictly limited achievement on to the highway of knowledge, almost unbounded.
I have been told that in intelligence tests recently applied to animals, an experiment with a chimpanzee showed that it could remember where food was buried for 25 hours, while a barndoor fowl's memory of the same event only lasted two minutes.

Yet no matter how it happened, the result is there, and it is this "divine desire to know", this desire to discover and explore, that is most manlike of all the qualities of man.

And so it has come about that as the boundaries have been extended, the pioneers push forward, and the miracles of one age become the common place possessions of the gext. And yet by bitter experience we learn, not only how precarious is man's hold upon what he calls civilization but how thin the crust of that civilization is. In one field or another man must constantly struggle to retain every advance made against the danger of slipping back into the jungle or even the abyss. This is the situation in which we find ourselves today.

We are wont to say that we are defending "our way of life" and perhaps it is worth asking ourselves what we mean by this way of life we desire to preserve. As I conceive it it has been built upon the four foundations of Justice, Mcrey, Truth, and Beauty; and it derives in part from the old Hebrew thinkers, in part from the Greeks, in part from the Romans, and all are deeply affected by Christianity.

Through the ages it has been from these streams that human life has been fed and from them that the best in human thought and action has llowed. It follows that, if these streams are poisoned or their flow impeded, the life of man as we know what we wish it to be, will be extinguished and the soul of man will die.

## POISON IVY KILLER

## A. F. JOY

A new ammonium sulfamate has been found which kills polson ivy permanently yet does not poison the soil or kill flowers.

The writer experimented personally on a farm in Harvard, Mass., in July, 1941. A month prior to the cxperiment one of the farm family came down with a severe case of ivy poison after working in a home-made rock garden and along a stone wall. The writer recalled reading about newly-isolated sulfamic acid crystals in an issue of a commercial magazine and wrote the company for an experlmental batch.

Shortly thereafter a quart bottle of the prized crystals together with dilution instructions arrived. It was July now and the ivy was flourishing.
Proper dilution of the crystals was made and the solution sprayed on with an ordinary hand sprayer. Both surfaces of the leaves were carefully and thoroughly wetted. The ivy began to wilt in a few hours and by midweek the leaves were falling to the ground-brown leaves now, and brittle to the touch.

In September the ivy had not come back-nor did it flourlsh again all durigy the rewainder of 1031. Yot can thbe the writer': word for it that the garden flowers were not harmed by the spraying.

## (Continued from page 65)

Seventh Circuit. (Illinoís, Indiana, Wisconsin)
Evan A. Evans, William M. Sparks, J. Earl Major, Otto Kerner, Sherman Minton.

One term annually, at Chicago, Illinois, from the first Tuesday in October until the first Tuesday of the next October. Unless otherwise specially ordered, the court holds three sessions commencing respectively on the first Tuesday in October and the second Tuesday in January and Aprìl.

Eighth Cincuit. (Arkansas, Iowa, Minnesota, Mlssourl, Nebraska, North Dakota, South Dakota)
Kimbrough Stone, Archibald K. Gardner, John B. Sanborn, Joseph W. Woodrough, Seth Thomas, Harvey M. Johnsen, Walter G. Riddick, and (retired) Arba S. Van Valkenburgh, Wilbur F. Booth.

Four terins annually, at Kansas City, Mo., commencing on the second Monday of March; at St. Paul, Minnesota, commencing on the first Monday of May; at Omaha, Nebraska, commencing on the first Monday of October; and at St. Louis, Missouri, commencing on the third Monday of November. Terms may be adjourned to such times and places as the court may from time to time designate.

Ninth Crpcuit. (Arizona, California, Idaho, Montana, Nevada, Oregon, Washington, Alaska, China, Hawaii)

Curtis D. Wilbur, Francis A. Garrecht, William Denman, Clifton Mathews, Bert E. Haney, Albert Lee Stephens, William Healy.

One term annually, at Seattle, Washington, commencing on the second Monday of September; at Portland, Oregon, commencing on the third Monday of September; at Los Angeles, California, commencing on the fourth Monday of September; and at San Francisco, California, commencing on the first Monday of Qctober.

Tenth Circuit. (Colorado, Kansas, New Mexico, Oklahoma, Utah, Wyoming)

Orie L. Phillips, Sam Gilbert Bratton, Walter A. Huxman, Alfred P. Murrah, and (retired) Robert Lec Williams.

Three terms annually, at Denver, Colorado, commencing on the first Tuesday of September; at Wichita, Kansas, commencing on the second Monday of January; and at Oklahoma City, Oklahoma, coinmencing on the second Monday of April, which terms may be adjourned to such times and places as the court may from time to time designate.

United States Court of Appeals for the District of Columbia.
Chief Justice: D. Lawrence Groner (of Virginia). Associate Justices: Harold M. Stephens (of Utah), Justin Miller (of California), Fred M. Vinson (of Kentucky), Henry White Edgerton (of New York), Wiley Rutledge (of Iowa). Retired Chief Justice: George E. Martin.

Three terms annually, at Washington, D. C., commencing on the first Monday of October, January, and April.

Note: List of Judges corrected to September 15, 1942.
Data as to terins of the courts revised to July, 1941.

## GESTATION PERIODS OF

CATS-55 days
COWS-285 days
DOGS-58 to 63 days
EWES-150 days

GOATS-144-150 days
MARES- 340 days
RABBITS-30 days
SOWS-116-120 days
(From date of service to birth of offspring.)

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## - HAPPINESS -

## By JOHN DECOVEN BERRY

If you live in the country and like to lave children round, have a pond. When I was a lad I helped clear the alder swamp and uau the brook to make the pond on this piace which I lacer innerited. Un three sides are tall pine woods and the fourth is a long graduai slope up a meadow to the house. Slring and summer evemngs I like to go fishing alone. I catch brook trout, little fat felows, some with pink flesh, some with white. Until electric refrigeration most of my winter's lowng came from the ice. We still cut about a thousand cakes. But my big crop, between Thanksgiving and midJanuary, is children.

After our first few freezing days, the telephone begins to ring, but until there is four inches of good icc and I've bcen all over the edges myself, I never let the children on. My first crop is grown up now, married, in military service or college, but the newconers have learned the rules from them, and I have no trouble. Instead of litter on the surface, my wife has even seen them clearing up oak leaves and pine twigs after a hlow. My rules are, no bothering anyone else - especially big boys skating so fast as to liurt little tykes, who, I tell them, mean more to me than all the big boys put together,-no swearing or dirty talk and no hockey sticks or any sort of sticks whatever, at any time. How is a big boy cliasing a puck going to look out for a little hit of a girl just getting her balance?
I told them in the first place that if my rules were broken I wouldn't bother to find out who was to blame, I'd clear the pond. And I told them they couldn't telephone for mother to come and get them. either. 'They'd walk and it's a good threc mlles to the village. I cleared the pond just once, about ten years ago.

My wife keeps extra mittens and cookies and cocoa on hand and lets them telephone. I loved to skate when I was a kid but I suffered so with cold hands and feet I never did get to enjoying it as I wanted to. My children put on their skates in the kitchen if they like. Our linoleum lasted, wlth patching. through the second winter. We have a quartered oak floor now, that's good atfer twelve years.

When I go down to the village every child knows me and speaks. At Christmas some bring me presents they've made. One little girl always makes me fudge. She's in High School now and it's better every year. My wife goes out on the back piazza and calls down to ask them to sing, maybe "Silent Night," whlle they skate. It's sweet to hear them. I've counted sixty children and not a single grown up on a pleasant Sunday afternoon and everybody happy. We haven't any children of our own, but we've more chlldren in and out the year round than anyone else in town. I'm very sure. We like it.

## CHHNESE PROVERBS

## DRAWN FROM BO-HE AND SUE-CHONG

Never do anything hastily: remember it is the last cup of tea which is the strongest.
Be not too prodigal: the kettle when too full puts out the fire.
A little scandal is to tea what an olive is to wine.
Butter not your bread on both sides, lest in your old age you be left without bread to butter.

It is a wise washerwoman who knows her own twankay.
Measure your green according to your black.
Happy is he who can take the rough with the smooth-the strong hyson with the fine pearl gunpowder.
Delays are dangerous: remember the hottest toast will get cold by standing.

## CHECK LIST <br> HOME ECONOMICS BOOKS <br> (WHICH MAY BE ORDERED ON APPROVAL)

## NOTE

We will send a copy of any or all books listed herewitly for examination on the following terms:

If retained, the book or books are to be paid for within 30 days. If not wanted, they are to be returned, PREPADD, within five days.

If adopted for school use and at least six copies of one title ordered -besldes givlng the school the usual discount-the examination copy of that title may be kept without charge for desk use.

## 1. PRINCIPLES OF CHEMISTRY APPLIED TO THE HOUSEHOLD

This book contains a simple introduction to the principles that underlie the study of chemistry and an application of them to an elementary study of the chemistry of foods and cleaning.

By Hannaf Teresa Rowley, A.B., Bryn Mawr, The Winsor School, Boston and Helen W. Farrell, A.B., Wellesley, The Winsor School, Boston.

Cloth, Illustrated, 55 Experiments, \$2.00. Revised $193 \%$.

## 2. YOUR HOUSE: A Workable Book for the Home Deeorator

For beginners, not technical, yet gives the essential facts in simple Ianguage.

An outline history of furniture is given, with illustrations showing the principal styles down through the ages.

By Lois Palmer.
Cloth, lllustrated (two-page color chart, line drawings and diagrams, and forty-eight pages of half-tones), \$3.00.

## 3. CASE BOOK IN FAMILY BUDGETING

This book is based upon problems in family finance which hare come to the author in the course of her work as consultant and lecturer. Each case is true in essential facts; names, occupations, and locations are changed.

By S. Agnes Donham, Instructor in Income Management, The Garland School of Homemaking, Boston, Massachusetts; formerly Educational Director, New England Division of War Savings.

Cloth, \$1.75.

## 4. TABLE ETIQUETTE: Menus, and Much Besides

This book will be found a safe guide througl perplexities and contradictions as to what is "correct," "permitted," and "forbidden."

By Mary D. Chambers, B.S., A.M., Professor of Chemistry and IIome Economics, and Head of the Departments, Rockford College, Rockford, Illinois.

Cloth, \$1.75.
5. HREAKFASTS, LUNCHEONS AND DINNERS: How to Plan, Serve, and Behare at Them

The family meals are fully discussed, also the intimate and friendly social meals where friends may be entertained by the mistress without a maid.

By Mary D. Chambers, B.S., A.M.
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## 6. A GUIDE TO LAUNDRY WORK

Special attention has been given to the removal of stains, to the washing of flannels, blankets and fabrics of wool or wool mixture, and to the laundering of lace, silk, embroidery, and fine silk lingerie. The diagrams of folding clothes after ironing are very clear, detailed, and numerous.

By Mary D. Chambers, B.S., A.M.
Cloth, Illustrated, \$1.25, Revised Edition, Fifth Printing.
7. PRINCIPLES OF FOOD PREPARATION: A Manual for Students of Home Economics.

Extensively revised and largely rewritten.
By Mary D. Chambers, B.S., A.M.
Cloth, Illustrated, \$1.60, Revised Sixth Printing.

7a. TEACHER'S ASSISTANT: To Accompany Principles of Food Preparation

Topics, Questions, Experiments, ete., are developed and explained in such a way that the use of the text should be "Teaching Made Easy." Completely revised to conform to the new edition above.

Paper, 50 cents net.

## 8. THE YANKEE COOKBOOK

This book, edited from thousands of contributions sent in annually to Yankee magazine, contains most of New England's famous old recipes and all of the new ones.

By Imogene Wolcott.
Washable Cover, Illustrated, \$2.50.
9. THE BOSTON COOKING-SCHOOL COOK BOOK

By Fannie Farmer, $\$ 2.50$.
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12. BOOK OF IIERB COOKERY ..... 2.50
13. CAKES. Mrs. Rorer ..... 1.00
14. CANNING AND PRESERVING. Mrs. Rorer ..... 1.00
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## REGIONAL FARM POPULATION MOVEMENT; VALUATION, TAX, ETC. STATISTICS

| DIVISION | Farm Population movement |  | Tax Levies on Farm Real Estate per acre |  |  | Est. total value farm land \& bldgs. millions of dollars |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Farm to city Thousands | City to farm Thousands | 1909-13 Ave. Dol. | 1939 <br> Dol. | Index Nos. 1909-13 $=100$ |  |
| New England: |  |  | . 37 | 1.04 | 279 |  |
| 1930 |  | 14 | ....... |  |  | 941 |
| 1931 |  | 14 |  |  |  | 960 |
| 1932 |  | 23 |  |  |  | 918 |
| 1933............. |  | 6 |  |  |  | 862 |
| 1934............. | $\stackrel{5}{7}$ |  |  |  |  | 878 |
| 1936 | 1 |  |  |  |  | 901 |
| 1937 |  | 11 |  |  |  | 921 |
| 1938 |  | 4 |  |  |  | 915 |
| 1939.... . . . . . . . |  | 12 |  |  |  | 910 |
| 1940. . . . . . . . . . . | $\underline{\square}$ | ........ | ........ | ........ | . | 741 |
| Middle Atlantic |  |  | . 46 | 1.13 | 244 |  |
| 1930 |  | 34 |  |  |  | 2,818 |
| 1931. |  | 11 |  |  |  | 2,654 |
| 1932. |  | 51 |  |  |  | 2,497 2,148 |
| 1933. |  | 25 6 |  |  |  | 2,148 |
| 1935 | 27 |  |  |  |  | 2,141 |
| 1936 | 17 |  |  |  |  | 2,213 |
| 1937 | 0 | 0 |  |  |  | 2,236 |
| 1938. | 2 | 11 |  |  |  | 2,262 2,243 |
| 1940. | $\ldots$ |  |  | ........ |  | 2,039 |
| East North Central: |  |  | . 43 | . 74 | 172 |  |
| 1930........... |  | 13 | . . . . . |  |  | 9,337 |
| 1931. |  | 25 |  |  |  | 8,453 |
| 1932. |  | 62 |  |  |  | 7,149 |
| 1933. | 7 |  |  |  |  | 6,054 |
| 1934. | 38 |  |  |  |  | 6,191 |
| 1935. . . . . . . . . . . | 51 |  |  |  |  | 6,597 6,080 |
| 1936. . . . . . . . . . . | 52 | . . . . . . . |  |  |  | 6,980 7,445 |
| 1938. | 44 7 |  |  |  |  | 7,553 |
| 1939............ | 24 |  |  |  |  | 7,527 7,334 |
| 1940.... . . . . . . . | $\ldots$ | $\cdots$ | ......... | . . . | ..... | 7,334 |
| West North Central: |  |  | . 20 | . 46 | 229 |  |
| 1930............. | 92 |  |  |  |  | 15,159 |
| 1931. . . . . . . . . . . . . . |  | ....... ${ }^{2}$ |  |  |  | 13,546 |
| 1932. |  | 15 |  |  |  | 11,370 8,943 |
| 1933. | 50 114 |  |  |  |  | 8,943 9,298 |
| 1934. | 104 |  |  |  |  | 9,385 |
| 1936 | 127 |  |  |  |  | 9,759 |
| 1937 | 135 |  |  |  |  | 9,851 |
| 1938.............. | 68 57 |  |  |  |  | 9,717 9,497 |
| 1939. . . . . . . . . . . . . 1940. | 57 | …....... |  | . . |  | 8,796 |
| South Atlantic: |  |  | . 12 | . 28 | 232 |  |
| - 1930 . . . . . . . . . . | 35 |  |  |  |  | 3,852 |
| 1931... . . . . . . . . | 26 |  |  |  |  | 3,504 |
| 1932.. | 2 | . . . . . . |  |  |  | 2,958 2,470 |
| 1933. . . . . . . . . . . | 69 42 |  |  |  |  | 2,470 |
| 1935 | 23 |  |  |  |  | 2,792 |
| 1936. | ${ }^{70}$ |  |  |  |  | 2,919 3,113 |
| 1937.. | 23 |  |  |  |  | 3,118 |
| 1939. | 64 |  |  |  |  | 3,177 |
| 1940. |  |  | ....... | ...... |  | 3,160 |


| DIVISION | Farm Population movement |  | Tax Levies on Farm Real Estate per acre |  |  | $\begin{aligned} & \text { Est. total } \\ & \text { value } \\ & \text { farm } \\ & \text { lands \& } \\ & \text { bldgs. } \\ & \text { millions } \\ & \text { of dollars } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Farm to } \\ \text { city } \\ \text { Thou- } \\ \text { sands } \\ \hline \end{gathered}$ | City to farm Thousands | $\begin{gathered} \text { 1909-13 } \\ \text { Ave. } \\ \text { Dol. } \end{gathered}$ | $\begin{aligned} & 1939 \\ & \text { Dol. } \end{aligned}$ | Index Nos. 1909-13 $=100$ |  |
| East South Central: |  |  | . 13 | . 32 | 249 |  |
| 1930... . . . . . | 8 |  |  |  |  | 2,685 |
| 1931. |  | 2 |  |  |  | 2,466 |
| 1932. |  | 32 |  |  |  | 2,058 |
| 1933. | 88 |  |  |  |  | 1,691 |
| 1934 | 67 |  |  |  |  | 1,787 |
| 1935 | 52 |  |  |  |  | 1,915 |
| 1936 | 35 |  |  |  |  | 1,984 |
| 1937 | 26 |  |  |  |  | 2,096 |
| 1938 | - 8 |  |  |  |  | 2.209 |
| 1939 | 61 |  |  |  |  | 2,244 |
| 1940... . . . . . . . | . . . . . . | ......... | … . . . . | . . . . . . | …...... | 2,325 |
| West South Central: |  |  | . 09 | . 18 | 190 |  |
| 1930. | 114 |  |  |  |  | 5,806 |
| 1931 | 41 |  |  |  |  | 5,233 |
| 1932 |  | 75 |  |  |  | 4,280 |
| 1933 | 78 |  |  |  |  | 3,618 |
| 1934 | 68 |  |  |  |  | 3,886 |
| 1935 | 83 |  |  |  |  | 4,030 |
| 1936 | 110 |  |  |  |  | 4,177 |
| 1937. | 66 |  |  |  |  | 4,248 |
| 1938. | 71 |  |  |  |  | 4,390 |
| 1939 | 63 |  |  |  |  | 4,314 |
| 1940. | ..... | . . . . . . . | . . . . . . ${ }^{\text {a }}$ | . . . . . . . |  | 4,232 |
| Mountain: |  |  | . 08 | . 15 | 182 |  |
| 1930 | 10 |  |  |  |  | 2,458 |
| 1931 |  | 11 |  |  |  | 2,444 |
| 1932. | 10 |  |  |  |  | 2,029 |
| 1933. | - 22 |  |  |  |  | 1,698 |
| 1934 | 29 |  |  |  |  | 1,728 |
| 1935. | 39 |  |  |  |  | 1,772 |
| 1936. | 37 |  |  |  |  | 1,857 |
| 1937. | 27 |  |  |  |  | 1,919 |
| 1938. | 13 |  |  |  |  | 1,911 |
| 1939 | 16 |  |  |  |  | 1,919 |
| 1940............ | . . . . . . | … . . . | … . . . | . | ......... | 1,780 |
| Pacific: |  |  | . 29 | . 53 | 183 |  |
| 1930 | 14 |  |  |  | $\ldots$ | 4,824 |
| 1931 | 18 |  |  |  |  | 4,732 |
| 1932 |  | 20 |  |  |  | 3,978 |
| 1933 |  | 2 |  |  |  | 3,240 |
| 1934 |  | 6 |  |  |  | 3,221 |
| 1935 | 0 | 0 |  |  |  | 3,325 |
| 1936 |  | 8 |  |  |  | 3,450 |
| 1937 |  | 22 |  |  |  | 3,595 |
| 1938 |  | 1 |  |  |  | 3,584 |
| 1939 |  | 17 |  |  |  | 3,524 |
| 1940. | . . . . . . | . . . . . . | ........ | ...... |  | 3,237 |
| United States: |  |  | . 21 | . 39 | 190 | 33,642 |

From the above figures, looks as if New England was taxing her farmers out of business, her 1939 per acre tax higher than all but one region. Her $279 \%$ increase per acre since 1909-13 highest of all, and her valuation consequently slipping though not as much as some.

THE AVERAGE AGE OF ANIMALS, saith Linnaeus, etc.

| Pigeon | - | 8 | years |  | Horse |  | 30 | "ars |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Goat |  | 8 |  | - | Ox |  | 20 |  |
| Sheep | - | 10 | * |  | Swine | - | 25 | " |
| Cat | - | 10 | \% |  | Peacock | - | 25 | " |
| Hare | - | 10 | " |  | Turtle dove |  | 25 | $\because$ |
| Ram | - | 15 | \% |  | Partridge | - | 25 | " |
| Bull | - | 15 | " |  | Ass | - | 30 | " |
| Dog |  | 20 | " |  | Goose | - | 70 | " |

Raven and Eagle each 100 years
Old Farmer's Almanac 1800


SPORTOCASINS help keep your golf score in the comfortable lower brackets.


WEEJUN - Original leisure footwear for after-sport, indoors and out.


SADDLE OXFORDS still are the rage of campus and classroom, rubber soles.


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No matter what activities I plan, there seems to be a Bass Moccasin to keep my feet just as comfortable as you please. Whether I'm heading for the hills to hunt or fish, or just camping out under the stars, my Bass Moccasins make it a real pleasure.
It's no secret :: : this way of making shoes that Bass inherited from Indian days. Every pair of Bass True Moccasins is band-sewn with a single piece of soft, smooth leather completely cradling your feet in absolute comfort.
Bass Outdoor Footwear is made for men and women who enjoy outdoor activities. And say, don't overlook Bass Weejuns the comfortable-est moccasins of 'em all. Slip your feet into a pair and you'll agree!
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QUAIL HUNTER for woods wear. Light, durable, waterproof construction.

SKI BOOTS for the young and young-in-spirit, when wintry slopes call. answers all the questions able high boot, water.

## FORECAST YOUR OWN WEATHER

## (Or one way to get around the Censor!)

## THE WEATHER AND THE LAW

In China the law regulates everything. Even ladies must dress according to the statute. No man must dare to notice the varieties of temperature before his superiors. The governor of a province lets its inhabitants know when it is cold enough for a change of costume; and when the signal is given by these functionaries, all China puts on its winter dress.

## WEATHER WISDOM

The following are a few of the "old saws" relating to the weather which abounds in Great Britain, namely:
"A rainbow in the morning
Gives the shepherd warning."
"A rainbow at night
Is the shepherd's delight."
"Evening red, and next morning gray,
Are certain signs of a beautiful day."
"If the cock goes crowing to bed, He'll certainly rise with a watery head."
"When you see a gossamer, flying, Be sure the air is drying."
"When black snails cross your path,
Black clouds much moisture hath."
"If the moon shows like a silver shield,
Be not afraid to reap your field." "When the peacock loudly bawls, Soon we'll , have both rain and squalls."

## SIGNS OF RAIN

"The air, when dry, I believe, refracts more red or heat-making rays; and as dry air is not perfectly transparent, they are again reflected in the horizon. I have generally observed a coppery or yellow sunset to foretell rain; but as an indication of wet weather approaching, nothing is more certain than a halo round the moon, which is produced by the precipitated water; and the larger the circle, the nearer the clouds, and consequently the more ready to fall."

## WINDS

Wind from the east,-bad for man and for beast; Wind from the south is too hot for them both; Wind from the north is of very little worth; Wind from the west is the softest and best.

## WINTER, DURATION OF SNOW

It is said, by shrewd observers of the weather, that if we have a thunder-storm after the autumnal equinox, (Sept. 22,) we shall have an open winter. It is also sald, that if we have a snowstorm falling on the increase of the moon, it will generally lay long; if on the decrease, it will melt soon.

## clouds

When you wish to know what the weather is to be, go out and select the smallest cloud you can see, keep your eye upon it, and if it decreases and disappears, it shows a state of the air which will be sure to be followed by fair weather; but if it increases, you may as well take your great coat with you, if you are going from home, for falling weather will not be far off. The reason is this: when the air is becoming charged with electricity, you will see every cloud attracting all less ones towards it, till it gathers into a shower. And, on the contrary, when this fuid is passing off, or diffusing itself, even a large cloud will be seen breaking to pieces and dissolving.-Locke Amsden.

## PLANETS

in conjunction with one another make wind-but with sun make fair weather.

## MOON

The weather remains (eleven times out of twelve) the same during the whole moon that it is on the fifth day of the new moon, if it continues unchanged over the sixth day.. and nine times out of twelve if the sixth day resembles the fourth.

## HOW YOU CAN IMPROVE BUSINESS IN YOUR TOWN

We have only one first job in 1943, of course,--that of winning the war. Your community must be running its win-the-war-now program of Production, Repair, Save and Win full blast before it can even think of business improvement work. By keeping the two close together, however, enthusiasm generated frow the first can help the second.

The attraction of more families as buyers in your town is probably the first and most obvious way your town can grow.

Here's what it means to get just one more average farm family buying in your town: In 1939, the average farm family's income totaled $\$ 1,443$. Last year, it was $\$ 1,628$. Next year, it is expected to total $\$ 2,365$.

The farm family spent its income in the following way last year: $\$ 496$ for food, $\$ 141$ for clothing, $\$ 171$ for shelter, $\$ 66$ for medical care, $\$ 22$ for personal care, $\$ 16$ for tobacco, $\$ 43$ for house furnishings, $\$ 125$ for household operations, $\$ 129$ for the family car, $\$ 29$ for recreation. $\$ 12$ for education, $\$ 7$ for reading, $\$ 28$ for charities, $\$ 4$ for personal taxes, $\$ 10$ for miscellaneous. Into savings went $\$ 322$.

That's the business you keep in your town when a single farm family concentrates its buying witl you-business that can be multiplied several hundred times to include the lundreds of farm families whose trade you could be getting.

Two other important ways of improving business are: 1) by helping to incrase the income of inhabitants of the area around you and 2) by increasing the area from which your town draws its trade.

In the determination of your plan (and remember any plan is better than no plan at all) the first step is to get together a Trading Area Map. Many methods are available; check the residences of Saturday night shoppers, the location of bank depositors, the farthest points to which the local doctor goes, homes of children at school, etc. From this map certain obvious opportunities will appear-as well as obvious weaknesses.

Next, take inventory. What is the historical background-the geography? What is the present population-the past-and how do these figures compare with similar towns? You may obtain city, county, and state breakdowns prepared by the Census Bureau for 1940 by sending 5 or 10 c (depending on the State), for "Population, First Series, Number of Inlabitants, 16th Census" to the Superintendent of Documents, Washington, D. C. From your population figuresand analysis of retail sales-you can arrive at a per capita sales figure which, when compared with that of other towns, may be significant.

At the time you send for the Census data just mentioned it will be just as well to include a request for the pamphlet ( 10 or 15 cents) entitled "Agriculture, First Series, 16th Census" and, if possible, the "Second Series" too. . . for your State.

In these two booklets you will find county data on uses of land, principal crops, classes of livestock-and amounts spent on fertilizer, machinery, number of trucks and tractors, detailed figures on size of fruit, vegetable and minor crops. From these figures you can then determine (A) whether in your town there are satisfactory markets for local farmers; (B) services, supplies, and information sources for the farmer buyer and (C) what if anything can be done by way of improvement.

You should determine, by surveying with an unsigned "opinion" questionnaire part of your farm population, how good your meeting places are, how friendly your farmers and business men may be, whether farmers feel at home-like to trade locally, how much cooperation the town is giving local organizations like the Grange, how good the roads are, and whether or not local cold storage lockers are available for the storage of surplus local crops and meat.

Next, get together with your local retailers and find out just how many and what sort of agricultural products are being inported from elsewhere-when they could just as well be purchased from local farmers.

Check at this time also the local facilities your retail stores are offering. Is the merchandise up to date? Are there parking facilities? Are the stores attractive? Eating places? Good rest rooms? Any place where mothers can leave children? Uniform closing hours? Special sales for farm families or industrial workers?

On the industrial side, handicraft enterprises probably offer more promising opportunities than do other types of industry but it would be well, by talking with leaders of the industries around you as to the further services your town might render, whether or not any related industries might be induced to locate in your town, and as to the need or opportunity for more companies to move there.

Affecting these considerations will be your natural resources, power, labor supply (skilled and unskilled), nearby markets, and transportation facilities.

With these economic factors in hand, you will then find there are social, recreational, and political factors that have real weight. as well as those of religion. Towns and their surrounding areas are probably more frequently leld together by these factors than by plain business transactions.

How about, for example, your

| Theatres | Picnic grounds |
| :--- | :---: |
| Tennis courts | Playground |
| Baseball diamond | Rasketball court |
| Bowling Alley | Park |
| Swimming pool | Ice skating rink |

Do you have such things as a good baseball team, Boy and Girl Scouts, 4 H Clubs, music clubs, garden or literary clubs, town band, library, recreation center?

Find out from the parents or use a postcard to find out from the young folks who has left town and why. Get suggestions towards making home more attractive. How about the opportunities for employment of young people:

Does any business group try to find them jobs after graduation?
Do local farmers want to employ them?
Do the churches and civic groups encourage them to join in?
What can be done to help more of them establish homes "at home"? Again, how about the law, dentistry. medicine, etc.? Do you have representatives of these professions? Hospitals free clinics, sanatoriums, rest homes? Adequate telephone and telegraph service? Will the local bank furnish adequate loans on crops, personal property. real estate, business? Does the bank handle trust and investment accounts? How about a free public employment service?
Tourist attractions is a field perhaps better left alone until after the war but affecting these you will find that tax and transportation itens will be of paramount interest. Both are lighly complex subjects and require much study. But now is the best time to start on them.

For example, fire and police protection, gencral town attractiveness, tax valuations, tax rate, street lighting, schools, garbage collection, ploughing the roads, health services, bus services-are just a few of those things good town management can provide-and if provided well will return many fold dividends in not only transients but all year residents besides.

In conclusion, remenber "make no small plans-they have no power to stir men's minds." Once you have arrived at your fillal plan as to what needs be done, you will want to enlist the newspaper editor, mayor, city council, chamber of commerce, grange leaders and others to help you. It will be then that you will want to begin your special promotional activitics asricultural, industrial, and courtesy-effective parts of your coordinated reneral program of basic improvement opportunities disclosed through the analysis of your economic and other surveys.

Carroll L. Wilson, Bureau of Foreign and Domestic Commerce. Washington, D. C. will furnish more detailed information with regard to the above upon request . under the general head of a sinall town manual for community action.

## (Continued from page 50)

"We repaired at once to the well-rememberd spot at the ledge. The snow had melted from the top of the brush, but still lay deep around the bottom of the pile. The men commenced work at once, some shoveling, and others tearing away the brush. Soon the box was visible. The cover was taken off, the layers of straw removed and the bodies, frozen and apparently lifeless, lifted out and laid on the snow.
"Large troughs made out of hemlock $\log s$ were placed nearby filled with tepid water, into which the bodies were placed separately with the head slightly raised. Boiling water was then poured into the trough from kettles hung on poles nearby until the water was as hot as I could hold my hand in. Hemlock boughs had been put in the boiling water in such quantities that they had given the water the color of wine.
"After lying in the bath about an hour, color began to return to the bodics, when all hands began rubbing and chafing them. This continued about an hour when a slight twitching of the muscles, followed by audible gasps, showed that vitality was returning.
"Spirits were then given in small quantitics and allowed to trickle down their throats. Soon they could swallow and more was given them when their eyes opened. They began to talk, and finally sat up in their bath tubs.
"They were taken out and assisted to the house where after a hearty meal they seemed as well as ever and in no wise injured, but rather, refreshed by their long sleep of four months."

## LIKE TO JOIN A SEED SWOPPERS' CLUB?

Mrs. Mabel Fordyce of Ridgeway, Missouri has conducted a Seed Exchange for several years now with some success. It is carried on by correspondence among the members for the purpose of exchanging seeds of wild and tame flowers, shrubs, and trees. By or before October 15 each member makes a list of the seeds he or she has to divide and sends it along with a fee (usually 25c) to Mrs. Fordyce. As soon as possible after October 15, these lists are combined into one long list for each member-the names and addresses of each member being posted on the list opposite each member's offering. Members may then choose the variety of seed desired from the list, write to the member who listed it and will, in return, as long as the supply lasts, receive that rariety, postage paid... up to as many packages of seed from each list as the writer has personally listed for exchange. Each member of course is expected to acknowledge by postcard the arrival of seeds as they are received.
There is no limit to the number of seeds you may list but it is best not to have too long a list. As a rule, five varieties are sufficient. The seeds must be cleaned and bear their botanical names giving second name and/or a description. Planting directions are also appreciated. Each member must keep his own seeds until they are sent for by other members.

There need be no correspondence except at seed exchanging time. Mrs. Fordyce, President of this club, concluded her letter to us as follows: "We are always on the watch for new members for of course we lose a few each year. I know we are losing one this year." Her address is given above.

If your swopping urge is broader than just seeds you might be interested in the Original Yankee Swoppers' columns published every two weeks at Dublin, New Hampshire. You may receive a sample list by forwarding the publishers (Yankee, Inc.) a stamped self addressed envelope.
Modern swopping is sort of a Golden Rule idea readily applicable on a large scale to our present distribution troubles. While apples and cordwood rot on New England farms-and children go without shoes, many a family in the South and West goes undernourished and without heat. Many a city family pines for a summer vacation on a farm-while many a farmer and his wife would enjoy two weeks in the city. Why not swop? Why not be a modern swopper? It's the latest craze-and it's patriotic!

## PRESIDENT AND VICE PRESIDENT

Presldent.............FRANKLIN D. ROOSEVELT.............New York Vice President...........HENRY A. WALLACE.........................Iowa<br>\section*{MEMBERS OF THE CABINET}<br>CORDELL HULL, of Tennessee, Secretary of State.<br>HENRY MORGENTHAU, Jr., of New York, Secretary of the Treasury. HENRY L. STIMSON, of New York, Secretary of War.<br>FRANCIS BIDDLE, of France, Attorney General.<br>FRANK C. WALKER, of Pennsylvania, Postmaster General. FRANK KNOX, of Illinois, Secretary of the Navy.<br>HAROLD L. ICKES, of Illinois, Secretary of the Interior<br>CLAUDE R. WICKARD, of Indiana, Secretary of Agriculture.<br>JESSE H. JONES, of Texas, Secretary of Commerce.<br>FRANCES PERKINS, of New York, Secretary of Labor.

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## THE PRESIDENT

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Byron Price, of Indiana, Directer, Office of Censorshlp.
Leon Henderson, of New Jersey, Administrator, Offce of Price Administration.
Office for Emergency Management:
James P. Byrnes, of S. C., Chairman, Omice of Economic Stabilization
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Leo T. Crowley, of Wisconsin, Custodian, Office of Allen Property Custodian.
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Dillon S. Myer, of Ohio, Director, War Relocation Authority.
Rear Admiral Emory S. Land, of Colorado, Administrator, War Shipping Admintstratlon.

Brlg. Gen. Philip B. Fleming, of Iowa, Administrator, Federal Works Agency: War Public Works Program.
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Department of Commerce:
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H. J. Klossner, of Minnesota, President, Rubber Reserve Company.

Harold. L. Clayton, of Mississippi, President, War Damage Corporation.
Garold L. Ickes, of Illinois, Coordinator, Department of the Interior: Office of Fishery Coordination, Office of Petroleum Coordinator for War, Office of Solid Fuels Coordinator for War.

Joseph E. Davies, of Wisconsin, Chairman, President's War Relief Control Board.
All the above agencies are directly under the President. For purposes of administration the Board of Economic Warfare, Omce of Censorship, and Offce of Price Administration are commoniy treated as agencies within the Executive Office of the President. There are also certain Joint Boards and Committees such as the U. S. \& Canadian Joint Economic Committees, Mexican-U. S. Joint Defense Committee, Pacific War Council, U. S. \& Great Britain. Combined Chicis of Staft, etc., which would fall in the third grouping above
glven space for listing.

## HOME CANNING OF FRUITS, VEGETABLES, AND MEATS.

Successful canning is based on an understanding of the important causes for the rapid spoilage of fresh foods and on a knowledge of the methods by which this spoilage may be prevented. The two agents that cause food spoilage are enzymes and micro-organisms, including bacteria, yeasts, and molds.

To prevent undesirable changes due to enzymes, fruits and vegetables should be canned as soon as possible after they are gathered. "Two hours from garden to can" is a good rule. If they inust be held they should be kept in small lots in a cool, well-ventilated place. Meats should be refrigerated at $30^{\circ}$ to $32^{\circ}$ F., if they are to be held for several days.

For purposes of canning, foods are considered in two groups according to the quantity of free acid they contain. The acid foods are fruits, tomatoes, pickied beets, ripe pimientos, and rhubarb. The nonacid foods include all other vegetables. such as asparagus, peas, beans, and corn, and also meats and poultry.

The acid foods are processed at or near the teniperature of boiling water ( $212^{\circ} \mathbf{F}$.) in a boiling-water bath, or in a steamer without pressure, or in an oven. The acid products may also be canned from the open kettle.

Nonacid foods must be processed in a steam pressure canner at temperatures of $240^{\circ}$ to $250^{\circ} \mathrm{F}$. obtained by applying 10 to 15 pounds of steam pressure ... as must be meat.

The safe way for the home canner is to process foods adequately with heat and not to use chemical preservatives.

Safe canning requires careful attention to cvery step in the processfrom the selection of the raw food to the final check-up of the canned products during storage.

Select good materials. Use only clean, fresh, sound foods in prime condition, and be sure the containers in which they are handled are clean. With fruits and vegetables, grade for size and same degree of ripeness. Wash thoroughly until every trace of soil is removed. The most dangerous bacteria and those most difficult to kill are in the soil. A wire basket is a help in the washing but should not be loaded too heavily. Always lift the fruit and vegetables out of the water rather than pour the water off.

Examine glass jars and caps carefully before using, to make certain that they are in good condition. Discard any jars or caps that have cracks, chips, or dents. Anything that prevents an air-tight seal may cause food to spoil. Jar rims should be smooth with no cracks or chipping. If ligntning-typc jars are used, they may need some tightening of wire clamps. A wire clamp that has loosened in use may be tightened by removing the top wire, bending it down in the middle, and then bending the sides inward, if necessary, to fit the jar.

Wash the jars and tops in hot soapy water and rinse. Place them in a pan of warm water with a rack or cloth in the bottom to prevent bumping. Bring to the boiling point and keep hot until required. Jars and tops for open-kettle canning should be sterilized by 15 to 20 minutes' boiling. When jars are packed with food and then processed they do not need to be sterilized first, but they should be clean and hot when filled. Prepare jar caps that have a sealing composition by pouring boiling water over them. Allow them to stand until used. Dip rubber rings into boiling water and place on the jars before filling them.

Sirup-Make the sirup for fruits in advance so there will be no delay when it is required.

Precooking.-Some foods are precooked for a short time before they are packed into the containers. This precooking helps to remove air from the tissues, slirinks them, facilitates packing, and speeds up the processing because the foods are already hot when they are placed in the canner.

Packing.-When using glass jars, remove one jar at a time from the hot-water bath where it has been held. Keeping the jars hot helps to prevent breakage during packing and processing. If needed. place a new wet rubber ring in position, resting flat on the sealing shoulder of the jar.

Pack the containers quickly so that the precooked food remains hot. Use a sufficient proportion of liquid to solids to prevent too dense a pack, and work out the air bubbles with a knife blade or spatula.

Leave the proper head space in the containers.

Exhausting and adjusting covers.-Food in glass jars is exhausted, or the air partially removed during processing, because the jars are not fully sealed. $\Lambda$ s each glass jar is packed, carefully wipe the rubber ring and sealing edge of the jar to remove any particles of food, and adjust the cap to seal the jar partially and permit exhausting. Place the jars as finished in the canner or where they will keep hot until processing begins.

Processing.-Process at the temperature and for the time required.
Cooling.-Cool glass jars in air but protect them from drafts. After they are cool, invert rubber-ring jars and observe for leakage. Test lacquered metal-top jars by tapping. Do not attempt to tighten screw caps or screw bands after jars have cooled.

Reprocessing.-If a container leaks, determine the cause. Process the food again, using another container, top, or ring, as needed.
Labeling.-Wipe the containers clean and label with the name, the date, and the lot number, if more than one lot was canned on that day, Glass jars may be labeled with a pencil that writes on glass or with gummed labels. Use rubber cement to fix paper labels on tin, or if the labels are long enougl, put glue along one end, wrap smoothly around the can, and lap the glued end over the other.

Checking up results.-Hold canned products at room temperature for a week or 10 days where they can be examined from time to time to be sure that they are keening. If any show signs of spoilage, examine all of that lot carefully.

Storage.-Store canned foods in a cool, dry place, and protect glass jars from the light so that the food will not fade in color. The quality is generally better if they are used within the first year after canning.

All foods should be inspected before being prepared for the table. Canued food is no exception to this rule. If there is any evidence of spoilage, the food should be discarded and nonacid vegetables and meats should be burned.

Inspect the can or jar before opening. In tin cans both ends should be flat and curved slichtly inward. Neither end should bulge or snap back when pressed. All seams should be tight and clean, with no traces of leaks. In glass jars there should be no bulging of the rubber and no signs of leakage.

When the container is opened there should not be any sudden outburst of air or spurting of liquid. The odor should be characteristic of the product. Any different odor probably indicates spoilage. The inside of tin cans should be smooth and clean or well-lacquered and not markedly corroded. Food may be left in a tin can after it is opened, provided it is covered and kept cold just as any other cooked food. Acid foods and tomatoes may dissolve minute quantities of iron from the can and acquire a slightly metallic flavor, but this is harmless. The purple that develops in red fruits and sometimes in peaches and pears canned in tin, is merely a change in the color pigments and is also harmless.

The broth over canned meats and chicken may or may not be jellied, depending on the quantity of connective tissue and cartilage in the meat. If it is liquid, this is no indication of spoilage.

Never taste to discover spoilage. When spoilage has occurred in nonacid foods there is always a possibility that even a taste may cause serious illness. For this reason it is good practice to boil all canned nonacid vegetables before using them. The processes recommended for meats are much longer than those for vegetables and should destroy all dangerous bacteria.

Freezing does not cause canned foods to spoil unless it breaks the seal and permits micro-organisms to enter. All frozen canned foods should therefore be examined for leakage. Sometimes freezing may bulge tin cans and spread the seams enough to permit bacteria to enter and yet not cause leakage. Bulged cans of frozen food, therefore, should be used as promptly as possible if they cannot be kept frozen.

When gas is formed within a can it may cause the ends of the can to bulge. For example, some fruits, such as prunes, apples, and some berries, react with the metals of the can, and hydrogen gas is liberated. When this collects, the can may become a "hydrogen swell." In this case the food itself is not affected. Howerer, in several types of food spoilage, gases are produced that cause swelled cans. For this reason bulged ends on a can are regarded as an indication of spoilage.
Canned foods are likely to develop perforations and hydrogen swells rather quickly if stored in too warm a place.
Ask your Senator for a free copy of U. S. Dept. Agr. Farmer's Bulletin No. 1762. It gives full details about cauning at home.

## , IMPORTING BREAD-STUFF FROM EUROPE

The Franklin Farmer has an intercsting articlc on bringing breadstuff from Europe to America. Uncle Sam is represented as being seated in his easy chair, when the accountant of Agriculture enters and hands him an abstract of his anmual account. The old gentleman, it is said, rubbed his eyes, wiped his spectacles, and looking earnestly along the paper, presently began to scratch his head. He looked again and again at the items, and each item with evident features of renewed wonder and embarrassment. Ascertaining the purport of the paper, he threw it down, tore off his spectacles, and rising hastily from his cushioned seat, paced the floor with a more rapid step than had been his wont for sereral years. "What!" he exclaimed, addressing the clerk in energetic terms of surprise and mortification-"bring me in debt nearly a million and a quarter for bread-stuff!-it can't be possible-there must be some mistake-I own more good rich tillable grain-land than any other cultivator on the globe, and can't believe my family are eating bread not grown on my own fieldslook over the accounts, and, sir, if you have not made some mistakeI won't believe such a disgraceful truth!"

By a statement from the Treasury Department, it appears that the importations and exportations of grain, flour, and meal, during the year 1837. were as understated, estimated in dollars. (We suspect, during 1838, the imports were quite as large or larger.)


Balance against Uncle Sam, . $\$ 1,206,813$ in the commodities which it is his business to raise and sell, and which he never ought to be obliged to buy. If we add to this balance of $1,206,813$ the amount which the old gentleman paid last year for foreign silks, viz. 14,352,823, it will show an annual balance in those two articles against him of $\$ 15,559,636$.

Those articles which it is either his professed business to raise, or which he can produce by his own labor, and from his own soil. If these facts were applied to the affairs of an individual farmer, we should naturally suppose that the boys were either too proud or too lazy to work, and perhaps both. And wherein does the analogy fail between an individnal farmer and a nation of farmers? What would be the conduct of the individual farmer who should find his affairs thus going to ruin? Would he not instruct his boys in the science and practice of his business, and stimulate them to labor by rewards, that the farm might produce enough and to spare to pay off debts, and keep something on hand for a wet day!

We insist, that the highest branches of learning. when blessed with practical instruction in the useful arts, and particularly in the business of agriculture, are more profitable to a state, than they are when applied to the learned professions.
O. F. A. 1840

The National Debt.-The following comparative statement of the National Debt of the United States, at different times since 1791, is taken from the circular of Thomas J. Lee \& Co. of Boston:-
January 1, 1791 ...\$ $75,463,476.52$
January 1, $1812 \ldots 4$... 45.209 .737 .90
January 1, 1816 ... $\quad 127,334,933.74$
January 1, 1826 … $\quad 89,985.537 .72$
January 1. 1836
291.089 .05

July 1, 1846
November $1 \ddot{5}, \ddot{1} \mathbf{8} \dot{5} \dot{6}$ 16,759.226.33
30,963.909.64
July 1, 1860
64,769.769.08
July 1, 1861
Tuly 1, 1862
90.867 .828 .69

July 1, 1863 $\qquad$ 514.210 .371 .92 ........ 1,098.793.181.37
July 1. 1864 ....... 1,740,690.489.49
January 31, $1865 \ldots 2,279,579.486 .10$
May 31, 1865
2,635,205,753.5n
O. F. A. 1866

## Tables of Measures

## (English Units)

## Linear Measure

1 foot $=12$ inches
1 yard=3 feet
1 rod $=51 / 2$ yards=16 $1 / 2$ feet
1 mile $=320$ rods $=1760$ yards $=$
1 nautical mile $=6080$ feet
1 knot=1 nautical mile per hour
1 furlong $=1 / 8$ mile $=660$ feet $=$ 220 yards
1 league $=3$ miles $=24$ furlongs
1 fathom=2 yards=6 feet
1 chain $=100$ links $=22$ yards
1 link=7.92 inches
1 hand $=4$ inches
1 span=0 inches

## Square Measure

1 square foot=144 square inches
1 sq. yard $=9$ sq. feet
1 sq . rod $=301 / 4 \mathrm{sq}$. yards $=$
$2721 / 4 \mathrm{sq}$. Ins.
1 acre $=180 \mathrm{sq}$. rods $=43560$ sq. ft.
1 sq. mile $=640$ acres $=$
102400 sq. rods
1 sq. rod=625 square links
1 sq. chain $=16$ square rods
1 acre $=10$ square chains

## Cuble Measure

1 cuble foot $=1728$ cubic inches
1 cubic yard $=27 \mathrm{cu}$. feet
1 register ton (shipping measure) $=100$ cubic feet
1 U. S. shipping ton $=40 \mathrm{cu}$. ft.
1 cord=128 cubic feet
1 U. S. liquid gallon=4 quarts $=231$ cubic inches
1 imperial gal. $=1.20$ U. S. gals.
1 board lootw 144 cuble inches

## (Metric Units)

## Lnear Measure

1 centimeter $=10$ millimeters
1 decimeter $=10$ centimeters
1 meter $=10$ decimeters
1 dekameter $=10$ meters
1 hektometer $=10$ dekameters
1 kilometer $=10$ hektometers
1 inch $=2.54$ centimeters
1 meter $=39.37$ inches
1 yard $=0.014$ meters
1 mile $=1809$ meters $=$
1.61 kilometers

Square Measure
1 square centimeter $=$
100 square millimeters
1 sq. decimeter $=$
100 sq . centimeters
1 sq . meter $=100 \mathrm{sq}$. decimeters $=$
1 centar
$1 \mathrm{ar}=100$ centars
1 hektar $=100$ ars
1 sq. kilometer $=100$ hek tars
1 sq . centimeter $=0.15$ sq. lnches
1 sq . meter $=1.20$ sq. yards
1 sq . kilometer $=0.39$ sq. miles
1 hektar $=2.47$ acres
1 sq. inch $=6.45 \mathrm{sq} . \mathrm{cm}$.
1 sq. yard $=0.84 \mathrm{sq}$. m.
1 sq . mile $=2.59 \mathrm{sq}$. km .
1 acre $=0.40$ hektars

## Cublc Measure

1 cubic centimeter $=$
1000 cublc millimeters
1 cu. decimeter $=$
1000 cu . centimeters
1 cu. meter $=1000 \mathrm{cu}$. decimeters
1 cu . yard $=0.76$ cubic meters
1 cu . meter $=1.31$ cubic yards
1 liter $=1.08$ U. S. liquid quarts
1 hektoliter $=100$ liters =
26.42 U. S. liquid gallons

1 U. S. Iiquid quart $=0.94$ liters
1 ण. S. llquid gallon=3.76 liters

## Weights

## Avolrdupols

1 pound=16 ounces
1 hundredweight $=100$ pounde
1 ton $=20$ hundredweight $=$
2000 pounds
1 long ton $=2240$ pounds

## Troy

(Used in weighing gold, sllver, jewels)
1 pennyweight $=24$ grains
1 ounce $=20$ pennyweight
1 pound=12 ounces

## Apothecarles

1 scruple $=20$ grains
1 dram=3 scruples
1 ounce $=8$ drams
1 pound $=12$ ounces

## Metrio

1 centigram=10 milligrams
1 decigram=10 centigrams
1 gram=10 decigrams
1 dekagram=10 grams
1 hektogram=10 dekagrams
1 kilogram=10 hektograms
1 metric ton $=1000$ kilograms
1 kilogram= 2.20 pounds
1 pound avoirdupois=
0.45 kilograms


MAKK YOUR UARR BONDS FIGHT!


## COFFEE IN 1843

One hundred years ago, when the Almanac was a youngster 50 years old, coffee was roasted in coal burning roasters, which even with perfect handling left much to be desired in quality and flavor.

## COFFEE IN 1943

Today, coffee is roasted and ground in modern scientific machines, which guarantee uniform quality and maximum flavor in every pound.

## WHITE HOUSE COFFEE

has always been blended by experts from the choicest beans-always roasted and ground by the best methods of the day. Today, White House Coffee offers you a richer, smoother, fresher flavor in every cup.

## WHITE HOUSE COFFEE

 Box 1871 BOSTON, MASS.
## OTHER FAMOUS PRODUCTS

White House Tea
White House Vacuum Salted Peanuts

## HUDSON'S BAY

## Point BLANKETS

## Famous Even Before the U.S. Existea

The Esmond Milus, Inc. are sole American distributors for genuine Hudson's Bay "Point" Blankets - the rugged, ideal campers' blankets. These are the same blankets for which Indians traded finest beaver skins as far back as $1779 . \ldots$. There are few products that can boast as long and as colorful a history as Hudson's Bay "Point" Blankets - a history intimately tied up with the winning of a Continent. By rigidly maintaining the same ideal of making the finest, heavy-duty blankets in the world, the Hudson's Bay Company has for over six generations made their "Point" Blankets the prized possessions of outdoor men and women. ...

## ESMOND BLANKETS

## From spinning to shipping Esmond

 overlooks no detail. . .Continuously on the market for thirty-five years, Esmond Blankets have won a high reputation for appearance, warmth and wearing qualities. Made the Pelage way, Esmonds are a long-time investment in warmth and comfort.
. . . Today the Esmond Mills' reputation for weaving blankets with traditional Yankee craftsmanship and care is fast earning new stripes in War production.

Write for "Good Morning - or is it?" a colorful book telling about Esmond Blankets and their care, or, a book about the famous, genuine Hudson's Bay "Point" Blankets.
THE ESMOND MILLS, INC., Esmond, R.I.

## YOUR EGG RECORD

|  |  | AN． |  | B． | MAR | RCH |  | RIL |  | AY |  | NE |
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| 1 |  |  |  |  |  |  | － |  |  |  |  |  |
| ${ }_{3}^{2}$ |  | － |  |  | －－ |  |  |  |  |  |  |  |
| $\stackrel{4}{5}$ | － | － |  |  | －－ |  |  |  |  |  |  |  |
| ${ }_{6}^{5}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 8 |  |  | － |  | － |  | － |  |  |  |  |  |
| 9 10 |  |  |  |  |  |  | － |  | － |  |  |  |
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| 15 |  |  | － |  |  |  | － |  | － |  | － |  |
| 17 |  |  |  |  |  |  | － |  | － |  |  |  |
| 18 |  |  |  |  |  |  |  |  | － |  | － |  |
| ${ }_{21}^{20}$ |  |  |  |  |  |  | － |  |  |  | － |  |
| 22 |  |  |  |  |  |  | － |  |  |  |  |  |
| ${ }_{24}^{23}$ |  |  |  |  |  |  | 二 |  | － |  | － |  |
| 25 |  |  |  |  |  |  |  |  | － |  |  |  |
| 26 |  |  |  |  |  |  | － |  | － |  |  |  |
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| 29 |  |  |  |  |  |  |  |  | － |  |  |  |
| 30 <br> 31 |  |  |  |  |  |  |  |  |  | － |  |  |
|  | JULY |  |  | UG． | SEP | PT． |  | CT． |  | OV． |  | EC． |


|  | A．M． | P．M． | A．M． | ．P．M． | A．M． | ．＇P．M． | A．M． | P．M． | A．m． | ．｜P．M． | A．M． | P．M |
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| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }_{5}^{4}$ | ＝ |  | ＝ |  |  |  |  |  | － |  |  |  |
| 6 7 8 | － |  | － |  | － |  | － |  |  |  |  |  |
| ${ }^{8}$ | ＝ |  | ＝ |  |  |  | ＝ |  |  |  |  |  |
| $\begin{aligned} & 10 \\ & 11 \end{aligned}$ | 二 |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & 112 \\ & 13 \end{aligned}$ | ＝ |  | ＝ |  | ＝ |  |  |  | 二 |  |  |  |
| 14 | 二 |  | － |  |  |  | ＝ |  | － |  |  |  |
| 15 16 | ＝ |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & 17 \\ & 18 \end{aligned}$ | ＝ |  | ב－ |  | ＝ |  |  |  | － |  |  |  |
| $\begin{aligned} & 18 \\ & 19 \end{aligned}$ | ＝ |  | ＝ |  | ＝ |  | ＝ |  | ＝ |  | ＝ |  |
| $\stackrel{20}{20}$ | ＝ |  | ＝ |  | ＝ |  | ＝ |  | － |  | － |  |
| ${ }_{23}^{22}$ | 二 |  | ＝ |  | 二 |  | － |  | 二 |  | － |  |
| ${ }_{24}^{23}$ |  |  | ＝ |  | ＝ | － | － |  | 二 |  |  |  |
| ${ }_{26}^{25}$ |  | $\stackrel{\square}{-}$ | 二 |  | 二 |  | ＝ | － | 二 |  | － |  |
| ${ }_{27}^{26}$ |  |  | ＝ |  | ＝ |  | ＝ |  | ＝ |  |  |  |
| ${ }_{29}^{28}$ | ＝ |  | ＝ |  | ＝ |  | 二 |  | － |  |  |  |
| 30 |  |  | 二 |  | 二 |  |  |  |  |  |  |  |
| 31 |  |  |  |  |  |  |  |  |  |  |  |  |

Get thy spindle and thy distaff ready, and God will send thee tlax.

Better ride an ass that carries us than a horse that throws us.
Everything comes in time to him who can wait.

Love rules without a sword.
Trust thyself only, and another shall not betray thee.

Nothing is lost on a journey by stopping to pray or to feed your horse.
Every man thinks his own geese are swans.

Circumstances alter cases; the straightest stick appears crooked in water.

An honest man is none the worse because a dog barks at him.

When you are an anvil, bear; when you are a hammer, strike.
He that can't paint must grind colors.

Wise distrust is the parent of security.

The devil tempts all men; but the idle man tempts the devil.
Business is the salt of life.
Never measure other people's corn by your own bushel.

He who spares vice wrongs virtue.
Like plays best with like; when the crane attempted to dance with the horse, she got broken legs.
That is often lost in an hour whicll costs a lifetime.

Give a rogue an inch, and he will take an ell.

A handful of common sense is wortll a bushel of learning.
The fire should burn brightest on one's own hearth.


THE

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## The Grand Old Standby presents

 NEW DELIGHTSOf course you like Underwood Deviled Ham in sandwiches－ often！

## NOW TRY THESE KITCHEN－TESTED RECIPES：

## DEVILED HAM STUFFED PLPPERS

 4 large green peppers2 cups bread crumabs
1 cup tomato sauce
or canned tomato

1 small onion， chopped fine I tablespoon melted butter 1／8 teaspoon pepper
Large can Deviled
Ham Ham

Split peppers in halves，lengthwise， carefully removing membrane and seeds． Parhoil five minutes in hoiling salted water．Mix Deviled Ham．crumhs and seasoning，and fill halves of pep－ pers．Cover tops with fine huttered crumbs，and bake in a hot oven until peppers are tender．

## DEVILED HAM AND POACHED EGGS

Buttered toast，Underwood Dev－ cut in rounds iled Ham． Poached eggs
Sex rounds of toast in oven for five minutes．Then spread with Deviled Ham and place a poached egg on each round
of toast．Serve immediately． of toast．Serve immediately．


## DEVILED HAM CREAM TOAST

1 tablespoon butter
1 tablespoon flour
3 cups rich milk
3／8 teaspoon

## pepper

Melt butter in double boiler；add flour and seasoning，and stir until smooth．Pour milk in gradually，and cook until it thickens．Stir in Deviled Ham，mixing thoroughly，Pour over slices of toast，sprinkle with hard－holled eggs and serve very hot．

## HOT DEVILED HAM AND CHICKEN

## 2 parts Deviled

 Ham1 part butter

Small can Deviled Ham
Freshly toasted bread
1 hard－boiled egg， chopped fine

Cream the ham and hutter together and spread on the loaf before cutting one－fourth inch thick．Trim the crusts and place chopped chicken between each two slices．Arrange on a platter． Garnish with cranherry or currant jelly．Pass hot chicken gravy with the sandwiches at the table．This is a good way to use left－over chicken and gravy．

MORE recipes like these if you＇ll drop a postcard with your name and address to Wm．Underwood Co．， 394 Walnut St．，Watertown，Mass．
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 Black Bean Soup 电 Purée Mongole 里 Consomme Madrilene Clam Chowder ${ }^{\text {s }}$ Quahaug Chowder 早Clams 畐 Clam Juice Sardines 早 Fudge Pudding 要 Spice Pudding

## The Commissary Department on the Civilian Front

Speaking to food retailers regarding problems of distributing food in war time, Secretary of Agriculture Wickard likened our job to that of the commissary department of the armed services. Our Company has accepted the many challenges of its obligation to the home front, among which are:-

1. To secure supplies of needed food in as large quantities as are permitted by the wartime requirements for our boys in uniform and for lend-lease to our allies;
2. Distributing food as economically and as fairly as is humanely possible;
3. Co-operating with the war effort through special services such as selling war stamps and bonds, co-operating in salvage drives and in all the other many civilian activities.

## FIRST NATIONAL STORES

At present writing, 2,267 First National Stores men are serving our country in the armed services.

## HE LAUGHED LAST

A Yankee country church yard holds
The grave of a bygone town buffoon
Chiseled on his marble slab
"I expected this but not so soon"
-Francis W. Hatch.

## THE OLD FARMER

would appreciate mention of The Almanack when you patrọnize advertisers.

Thanks.


Keep a package in the medicine cabinet as well as in the kitchen

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ARM \& HAMMER WASHING SODA OR SAL SODA
is completely soluble in water and, therefore, is effective in all cleaning operations. Total solubility also prevents its clogging of drains, traps, etc.

To clean with ease use
ARM \& HAMMER WASHING SODA
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